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Twenty-first Series, No. 9

January 29, 1921



# Columbia University Bulletin of Information

## ANNUAL REPORTS 1920

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Twenty-first Series, No. 9

January 29, 1921

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**Columbia University**  
**Bulletin of Information**

**ANNUAL REPORT**  
**OF THE**  
**PRESIDENT AND TREASURER**  
**TO THE**  
**TRUSTEES**  
**WITH ACCOMPANYING DOCUMENTS**  
**FOR THE YEAR ENDING**  
**JUNE 30, 1920**

**NEW YORK**  
**1921**



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# ANNUAL REPORT OF THE PRESIDENT OF COLUMBIA UNIVERSITY

## *To the Trustees:*

The Annual Report prescribed by the Statutes of the University is herewith submitted, together with the reports of the chief administrative officers. These present a complete survey of the work of the University for the year ending June 30, 1920, and call attention to those problems and needs which are at the moment most important and most pressing.

It may reasonably be said that, at the close of the year under review, Columbia University was in a more satisfactory condition than ever before in its history. Teachers and organizers of research are accomplished and devoted. The administrative staff is efficient and untiring. The salaries of teachers and administrative officers, together with those of the clerical staff, engineers, janitors and other helpers, have been notably increased. The immense student-body, thoroughly representative of the whole country, is earnest and of high quality, notwithstanding its huge size. Some of the chief educational problems of the present day have either been solved or are so clearly understood as to be half way toward solution. No vexatious questions of discipline have presented themselves. The corporation, for the first time in many years, is without floating debt. A reserve fund is being accumulated at the rate of \$100,000 annually in order to liquidate at maturity the bonded indebtedness incurred in the purchase and development of the site on Morningside

Heights. The several corporations included in the University's educational system hold and administer property that may be conservatively valued at \$72,000,000, of which \$35,000,000 have been added by gift or bequest during the past twenty years. The annual budget appropriations now amount to approximately \$6,500,000 a sum greater than that raised and spent annually by any one of twenty States.

Though a giant, Columbia University, as stated in an earlier Annual Report, is a giant in bonds. It is now doing everything which its present resources make possible. To provide needed buildings for classrooms, for laboratories and for residence, to make possible the putting into effect of the wise and careful plans for the Medical School to care properly for the buildings and grounds, and to undertake those well-matured projects which have been described in previous years, an additional capital sum of not less than \$30,000,000 is required.

The most significant event of the year was the quick acceptance by the Trustees of the recommendations as to academic salaries and academic fees contained in the Annual Report of 1919 [pp. 1-4, 9-16]. The scale of classification of salaries then recommended was adopted and put into effect from January 1, 1920, thus offering as prompt relief as possible to the great number of academic teachers who were having increasing difficulty meet the steadily rising cost of living. This scale of classification of salaries, while not final or the best possible, is probably as long an advance as has yet been made toward the suitable compensation of officers of instruction and research in a university.

The effect of this action by the Trustees was instantaneous and most exhilarating. The teaching staff had not thoug

that action so prompt and so generous was possible, and their expressions of satisfaction and appreciation were many and sincere. The estimated annual cost of putting this new scale of salaries into effect throughout the University was approximately \$500,000, a sum equal to the annual income at 5% on \$10,000,000. In addition, every new appointment or promotion will be made at the new rate of compensation and therefore at increased cost.

This most admirable and heartening action would not have been possible unless the Trustees had at the same time accepted the recommendation to increase the tuition fees throughout the University. These fees were increased from \$6 to \$8 per point, which is defined as one hour a week of attendance for a Winter or Spring Session or the equivalent thereof. This was an increase of  $33\frac{1}{3}\%$ , and it amounts, in the case of the undergraduate following a normal program, to \$84 a year, in the case of a student of law to \$67, in the case of a student of medicine or of engineering to \$117. This increase in fees, while not great, by reason of the large attendance throughout the University produces additional revenue quite sufficient to meet the cost of the new scale of academic salaries. As has been pointed out in earlier Annual Reports, an increased tuition fee is met by the student or his guardian for but a few years and is at most insignificant in amount, while the university teacher on an insufficient stipend is sentenced to lifelong hardship and privation. It is of interest to record the fact that students and their guardians, when advised of the reason for the immediate increase in tuition fee, almost without exception accepted it cheerfully and with full understanding of its purpose. At the same time, greatly increased provision was made for aid to students, so that no student of high character and sound scholarship should find himself debarred from attendance at Columbia because of inability to meet the increased fees for tuition.

The result of these policies is to place the University upon a sounder and healthier foundation than for many years past. For a generation growth and expansion have been so constant and so rapid that it has not seemed possible to face the problem of academic salaries and to deal with it satisfactorily. This has now been done, and the increased cost has been met, not by begging the public to provide new funds with which to continue to offer higher and professional education at a small fraction of its cost, but by assessing an additional portion of that cost directly upon those who receive and who benefit by it.

It is significant, too, that in the same year in which all this was accomplished, the admirable management of the corporate property and funds by the Finance Committee and the Treasurer has enabled the University to discharge its floating debt and to get through an entire fiscal year without borrowing from the banks in anticipation of income in order to meet current expenses.

The foregoing statements indicate clearly the position at which the University has now arrived. Its educational program is well organized and on a satisfactory basis. Its teachers are better paid than ever before and are working with wholehearted loyalty and devotion. The University is no longer incurring indebtedness because of repeated annual deficits through the cost of ordinary operation. All this emphasizes the need for new endowment or capital with which to go ahead and better to care for work now organized and in progress. The building program set out in detail in the Annual Report for 1919 [pp. 31-36] still awaits action. The projected building for the School of Business, which will bring great relief, cannot be begun until the Faculty Club is cared for, and that, in turn, awaits the securing of funds needed to erect a suitable and commodious building

adjoining the President's House at Morningside Drive and 117th Street. The Department of Chemistry is sorely pressed for space, and no way seems open to provide it save by building a wing running north along Broadway from the westerly end of Havemeyer Hall. The other buildings mentioned and described in the last Annual Report would follow in turn. The completion of University Hall, with a suitable and dignified place for general assemblies of the University, is a greatly desired but very costly undertaking. No more notable memorial to a friend or alumnus of the University could be built. The plan for a Stadium in the North River between 116th and 120th Streets, which has lain dormant for years, should be vigorously revived and an attempt made to carry it to completion. This Stadium, in addition to serving the needs of the students and alumni of Columbia, would be a great addition to the open-air resources of the city of New York and would speedily become the center for public gatherings, games and displays of various kinds. South Field would then be left, as should be the case, to serve as a playground for the great army of students who wish to engage in sport or to take open-air exercise without becoming members of a particular and highly trained team.

Building costs remain excessive and are not likely to decline suddenly, or indeed greatly, for some time to come. The practical problem becomes, therefore, almost insolvable. It is highly injudicious to erect non-commercial buildings at present high costs, and yet the University's urgent needs must somehow be met. An irresistible force seems to have met an immovable body, despite the logicians.

During the year the housing problem took an acute form in the city of New York, and the University felt it



very directly. After a study of various possible courses of action, and having in mind the present excessive cost of construction, the Trustees purchased four apartment houses on the west side of Claremont Avenue overlooking Milbank Quadrangle, to be occupied by officers and students. These buildings were Nos. 21, 29, 35 and 39 Claremont Avenue, ten and eleven stories high, and of modern construction and equipment. They were purchased at a cost of approximately \$1,340,000 and contained 128 apartments, 825 rooms in all. Owing to the terms of existing leases, it will be October 1, 1922 at the earliest, before the University can come into possession of all these apartments in order to assign them to the use of officers and students. The northernmost building, No. 39, was found admirably suited to officers and their families. No. 29 was assigned to the use of students in Barnard College, where for two years past there has been strong pressure for additional residence accommodation. The Comptroller and the Superintendent of Buildings and Grounds have dealt with the many and vexatious questions arising through the purchase and occupancy of these buildings with rare skill and tact, and there is every reason to believe that they will be a marked addition to the resources of the University.

In order that the academic character of these buildings might be emphasized and their occupants brought into contact with the Columbia tradition, they were named respectively, John Jay Hall, in memory of John Jay of the Class of 1764; Gouverneur Morris Hall, in memory of Gouverneur Morris of the Class of 1768; De Witt Clinton Hall, in memory of De Witt Clinton of the Class of 1786; and Tompkins Hall, in memory of Daniel D. Tompkins of the Class of 1795. Three of these men were Governors of the State of New York and one was also Vice-President of

the United States, while another, after a very distinguished career, became the first Chief Justice of the United States. While these distinguished names have been given to the newly acquired residence halls, they would be highly appropriate as the names of those permanent residence halls which it is to be hoped will one day be added to those already in use on South Field. In that event, other names associated with the history of the University can readily be found for the residence halls on Claremont Avenue.

It is fixed policy at Columbia that the University must not only provide for the instruction of its students, but that it must also bear its share of responsibility for their health, their housing, and their food.

University  
Commons

One of the most difficult problems which a University has to meet is that of supplying the students with nourishing and well-cooked food at a price which will not be beyond the means of students and yet will not occasion serious financial loss to the University. Columbia has been face to face with this problem for a number of years and has tried various experiments, none of them very successful. Conditions as they exist at Columbia make a difficult problem still more difficult by reason of the absence of so many students on Sundays and holidays, which reduces the income without lightening the overhead charges, and by the greatly increased attendance at the mid-day meal.

In the early part of 1919, the President appointed a Special Committee to take responsibility for the conduct of the Commons. This Committee consisted of Director Egbert, Dean Hawkes, Dean Gildersleeve, Dr. McCastline, Director Coss, Professor Katherine Reiley, Comptroller McFarlane of Teachers College, the Assistant Superintendent of Buildings and Grounds, Mr. Updike,

and Miss Emma R. Baker. The Committee studied the problem of the Commons in all its aspects, particularly in the light of the experience of the University in supplying food for the Student Army Training Corps during the last year of the war. As a result, Dr. McFarlane and Miss Baker were asked to take direction of the University Commons under the supervision of this Committee. The room was skillfully redecorated under the supervision of Director Boring of the School of Architecture, and the walls of the room, hitherto most unattractive, were adorned with interesting cartoons copied from Greek vases. The entire room was so transformed as to call forth hearty commendation on the part both of officers and students. The Committee decided also that the cafeteria system would be the most satisfactory plan of carrying on a University Commons under conditions as they existed at Columbia.

It was the policy of the Committee to conduct the Commons on the theory that the University should furnish its students with nourishing and well-cooked food at a moderate cost, even if by so doing it incurred financial loss. In other words, it was held that the University should, if necessary, make an appropriation for this purpose, just as it has made appropriations for the welfare of students in the residence halls and in the laboratories. The Committee felt from the first that if the problem was approached in this spirit the deficit, if any, would be small and that increased appreciation on the part of the students would in time produce a slight profit rather than a deficit. The results of the past year have fully justified the Committee in their assumptions and methods. Satisfactory food has been provided at a reasonable rate, in a comfortable and attractive room. The Commons has been so fully appreciated by the students that, notwithstanding the fact that the rates charged were lower than those

asked in restaurants near the University, the operations of the year have been carried on without loss.

This is a most encouraging experience, and the University owes a debt of gratitude to those who are directly responsible for the success of the Commons. A sound principle has been vindicated and a satisfactory method of administration has been devised. It now remains to extend and develop this principle and this method as circumstances may require and justify.

It is hoped that the report of the University Medical Officer [p. 208] will receive careful reading. Perhaps in no other respect has the University, during the past few years, made greater progress than in making provision for the oversight of the health of both officers and students. Columbia has gotten far away from the notion that its only responsibility toward its students is to provide them with scholarly instruction. The conception of education which here prevails includes instruction to be sure, but it relegates instruction to its proper place in any sound scheme of truly educational endeavor. Mental and physical health, comfortable housing and good food come before either text-books or laboratories as educational instrumentalities. The University Medical Officer and his assistants stand guard over the health of the University, not for the purpose of doing the ordinary work of a physician in treating and curing disease, but for the purpose of keeping officers and students in good health, and of preventing the onset of those ailments and illnesses that may by care be so easily prevented. The practical results are extraordinary and can be testified to by hundreds of officers and students. This service is provided by the University without charge and in fulfilment of what it conceives to be a part of its duty toward its members.

University  
Medical  
Officer

The general public, following the lead given by the newspapers, takes great interest in the size of the student-body at Columbia University. The University itself, however, takes much more interest in the quality of its students than in their number, and in the service which their number permits it to render to the nation and to the relations between our own and other nations. It is true that the student attendance has grown rapidly during recent years, but the movement has had two aspects that are quite distinct. The large increases of attendance have been chiefly in the Summer Session and in Extension Teaching. While these groups have been steadily increasing in size, the attendance during the Winter and Spring Sessions upon courses leading to a degree has been going through a sifting process. While through the Summer Session and Extension Teaching the University has been giving new opportunities for work of collegiate and university grades to mature students who are able to work on part time only or under peculiar conditions, the standards of admission and of achievement in the College, in the non-professional Graduate Faculties and the professional schools, have been steadily raised. Moreover, an increase of fees has more than once checked the growth of attendance, or actually decreased it, in several of the schools of the University. In most of the non-professional graduate and professional graduate schools the effect of this sifting process has been to decrease the size of the student-body.

In Columbia College, on the other hand, the registration has steadily grown in spite of the raising of educational standards, of more effective administration of the requirements for admission and of an increase in fees. In 1902-1903 the attendance in Columbia College amounted to about 12% of the entire resident student-body. In 1919-1920, however, the proportion had so changed that

the attendance in Columbia College then represented about 20% of the resident student-body. The size of the College has grown from 495 in 1902-1903 to 1,901 in 1919-1920. Similarly, Barnard College has grown from 358 in 1902-1903 to 755 in 1919-1920.

The present proportion of Columbia College students who go forward to graduate or professional study is unusually large. Taking into account those who pursue these studies at other universities, it would appear that each year no fewer than 75% of the members of the graduating class of Columbia College go forward to advanced university study either here or elsewhere. This fact signifies that the College is a truly educational institution, and that the University can count upon it to provide a substantially uniform standard and type of preparation for advanced work. A figure such as this not only marks the high character and serious purpose of the work of the College, but emphasizes the contribution which the College makes to the University.

In 1902-1903 the non-professional Graduate Faculties had a registration of 623 and in 1919-1920 of 1,249. During the interval, however, the registration in those schools had risen to a maximum of 1,875 in 1914-1915. Since that year the registration under these Faculties has fluctuated sharply, partly because of conditions due to the war. The lowest point was reached in 1918-1919 when there were but 774 students enrolled. Recent legislation by these Faculties has led to the grouping of their students in certain definite classes. Any one who can show promise, by reason of his previous education, of being able to study with profit, may register for graduate courses of instruction; but it is only after he has established a definite claim to consideration as an advanced and competent scholar that one so registered is accepted as a candidate for either the Master's or the Doctor's degree.



The Schools of Mines, Engineering and Chemistry had a registration of 638 in 1902-1903, which fell in 1919-1920 to 136. The registration of 1902-1903 remained nearly constant until 1905-1906, when an increase in fees affected it somewhat. The lost ground was quickly recovered, however, and by 1910-1911 the high water mark was reached with a registration of 724. In 1914-1915 the new program of studies was put into effect, and in consequence the work of the entire first year was omitted from the program of these Schools. The gradual working out of the students who had entered under the old system, and the inauguration of the new and advanced courses, carried the registration down to a low point of 81 in 1917-1918. Undoubtedly, too, the entry of the United States into the war helped to bring the registration to this low point. Since 1917-1918 the registration has increased steadily, despite the new and severe conditions of admission and the increased fees, and it will not be long before the group of advanced students in Engineering will number not fewer than 300.

The Faculty of Law had 461 students in 1902-1903, and as that year offered the last opportunity to enter the School without collegiate preparation, the entering class was unusually large. During the following years the registration in the School of Law declined steadily until the low figure of 249 was reached in 1907-1908. It then increased until 1915-1916, when it was 485. In 1917-1918, the year of our entry into the war, the registration dropped to 219, but in 1919-1920, the first year following the war, it rose sharply to 451.

The School of Medicine has been going through pretty much the same process as the School of Law. In 1902-1903 it had a registration of 795. Increasing stringency in the administration of the entrance requirements and a subsequent raising of these requirements, together with

stricter rules governing advancement from class to class, reduced the registration to 314 in 1907-1908. From that time there was a steady increase until high water mark was reached in the first year of the war, 1917-1918, when the registration was 554. A determined effort on the part of the Faculty to limit the number of medical students in order that all might be properly provided with laboratory and clinical facilities, reduced the registration to 446 in 1919-1920.

The School of Architecture had in 1902-1903 a registration of 84. In 1910-1911 this had grown to 158. Changes in the entrance requirements that were made at that time reduced the number of students. Still later all students who were not candidates for the degree of Architecture were removed from the School of Architecture and placed under the jurisdiction of Extension Teaching. While this action increased the unity and solidarity of the student-body, and was of marked educational advantage, it reduced very materially the registration of the School. In 1919-1920 the registration was 63.

The establishment of new Schools, such as the School of Business and the School of Dentistry, has added several hundred students to the total registration, but it remains true that the large figures, which interest the public and which the public likes to dwell upon, are due chiefly to the increase in the size of the Summer Session from 643 in 1902-1903 to 9,539 in 1919-1920, and to the increase of students in Extension Teaching from 1,196 in 1902-1903 to 10,330 in 1919-1920.

The registration in Teachers College has grown greatly. In 1902-1903 there were 633 students, and in 1919-1920 there were 3,118. The larger part of the increase is the result of the establishment in 1912-1913 of the School of Practical Arts, which now has a registration of 1,551.

At Columbia steady resistance is offered to the tendency to refer to the work of the Summer Session and that of Extension Teaching as distinct from what is called the regular work of the University. The work of the Summer Session and Extension Teaching is just as regular, just as closely organized and just as earnestly pursued as the work of any other part of the University. In years to come it will probably be found that Columbia has led the way in organizing its work as it has done, and that thereby it has made another distinct contribution to the advancement of higher education in the United States. If the gross registration in Columbia University at the present time be taken at say 30,000, it will be found to fall into three substantially equal groups, one-third being in attendance at the Winter and Spring Sessions, one-third being in attendance at the Summer Session, and one-third being in attendance in Extension Teaching.

Few things are more noticeable in much current writing and discussion than the twisting of well-known terms from their accustomed meanings. This twisting is quite often done consciously and for purposes of propaganda. Perhaps no word in the English language has suffered more from this ill-treatment than the fine word liberal. The historic and familiar significance of this term is that which is worthy of a free man, of one who is open-minded and candid, of one who is open to the reception of new ideas. In this sense the thought which lies behind the word liberal has dominated every really progressive theory of education from the time of Plato to the present day. Just now, however, the word liberal is widely used as though it were synonymous with queer, odd, unconventional, otherwise-minded, in perpetual opposition. There was a time when in the neighborhood of Boston the test of liberalism was

Making Liberal  
Men and Women

the rejection of the Andover Creed, and possibly the rejection of the Apostles' Creed itself. Many would include among liberals those who favor all sorts of social, industrial and governmental tyranny, which are by their very nature incompatible with liberty. An enemy of the family and an experimenter with what is called trial marriage, is now called a liberal. The person who would destroy government and substitute for the political state of free men a close-working combination of industrial autocracies, is called a liberal. One who sneers at the religious faith or the political convictions of others, and takes care that his attitude is publicly advertised, is called a liberal. Under such circumstances it is plainly necessary to look to one's definitions. The aim of the school, the college and the university has often been described as that of making liberal-minded men and women; but surely this need not be interpreted to include freaks, oddities, revolutionaries and those whose conduct carries them close to the border line which, if crossed, would require them to be put in confinement in the interest of social welfare and social safety.

The truly liberal man or woman will be self-disciplined, and will aim to make knowledge the foundation of wisdom, to base conduct upon fixed character, and to maintain an even temper at difficult times. Considering the conditions of the time in which they lived, the ancient Stoics give us some admirable examples of what is truly meant by a liberal. We cannot afford to let this word be lost or to have it stolen before our eyes. Its application should be denied to those individuals and those traits for which it is wrongly claimed, and its true definition and use should be insisted upon everywhere and at all times. Otherwise, we shall have to find some other definition of the aim of education than that of making liberal men and women.

It would be idle to ignore the fact that there is widespread public dissatisfaction with the results of present-day education. Horace Greeley's famous classification of college graduates with horned cattle is too often quoted with approving sarcasm. The mounting cost of education, both tax-supported and other, and its diverse competing forms, are increasingly attracting unfavorable public attention and increasingly arousing sharp public criticism. The qualifications of those who teach are not always spoken of with approbation. In the past it has been usual to assume that whatever is done in the name of education, like that which is done in the name of philanthropy or religion, is of necessity well and deservingly done and is to be supported without murmur. There are, however, too many signs that education does not satisfactorily educate to justify or even to ensure a longer continuance of this uncritical acquiescence. What is the trouble?

Perhaps a hint of where to look for an answer may be found in the remark of an undergraduate who had been in attendance upon a lecture by one of the foremost living authorities in his field. "A very scholarly lecture," the undergraduate was heard to say as the audience passed out, but his tone was one of distinct protest that he had spent his time in listening to scholarship. Scholarship, it must be confessed, is not popular in America, and what is blithely referred to as the revolt against intellectualism is, in last analysis, nothing more or less than the revolt against the influence of those who know. It is the passionate cry of ignorance for power. A casual impression gained from the reading of some hopelessly befogged magazine or from some haphazard newspaper headline, or a response to some emotional "urge"—the newest name for appetite—is greatly preferred to real knowledge. The ruling passion just now is not to know and to under-

stand, but to get ahead, to overturn something, to apply in ways that bring material advantage some bit of information or some acquired skill. Both school and college have in large part taken their minds off the true business of education, which is to prepare youth to live, and have fixed them upon something which is very subordinate, namely, how to prepare youth to make a living. This is all part and parcel of the prevailing tendency to measure everything in terms of self-interest. Economic explanations of the conduct of individuals, of groups and of nations—that is, explanations based upon desire for gain or love of power—are sought rather than explanations based upon intellectual or ethical foundations. But a civilization based upon self-interest rather than upon intellectual and moral principle would swiftly lapse into the barbarism out of which it has come. An educational system based upon self-interest is not worthy the support and the sacrifice of a civilized people.

We are doubtless passing through a period of reaction in education which will spend itself as periods of reaction have so often spent themselves before. The sure mark of a real reactionary is his contempt for all that man has learned and done, and his demand that the history of human achievement be thrown away and the task begun all over again on the basis of present-day dissatisfaction and distress. The sure mark of the true progressive is his acceptance of human experience, his desire to understand and to interpret it, and his determination that it shall be made the foundation for something better, something happier and something more just than anything which has gone before.

The underlying condition essential to human happiness is progress in the power to produce. Unless that power to produce is the outgrowth of understanding, of mastery of principles, of knowledge of past achievement and of



insight into high and lasting purpose, it will not accomplish anything desirable or permanent. For a quarter century past American educational practice has been steadily losing its hold upon guiding principle and has, therefore, increasingly come to float and drift about upon the tide of mere opinion, without standards, without purpose and without insight. The little red school house of the generation that followed the Civil War, with its wretchedly poor equipment but with an earnest and devoted teacher who laid stress upon character-building and upon the fundamentals of intellectual training, did more for the American people than does many a costly and well-equipped educational palace such as may be seen in any part of the United States today. It is as discouraging as it is startling to find Henry James, so lately as 1913, describing the college town which he knew best as "utterly arid and vacuous."

This decline in educational power is primarily the result of a widely influential and wholly false philosophy of education which has operated to destroy the excellence of the American school and college, as these existed a generation ago, without putting anything in its place. It has been dinned into our ears that all subjects are of equal educational value, and that it matters not what one studies, but only how he studies it. This doctrine has destroyed the standard of value in education, and in practical application is making us a widely instructed but an uncultivated and undisciplined people. We are now solemnly adjured that children, however young, must not be guided or disciplined by their elders, but that they must be permitted to give full and free expression to their own individuality, which can of course only mean their own utter emptiness. In education as in physics, nature abhors a vacuum. Were such a theory as that to

become dominant for any length of time, the whole world would thereby be sentenced to remain forever in the incompetence and immaturity of childhood. No generation would be helped or permitted to stand on the shoulders of its predecessors, or to add something to what they had already gained. Life would then be merely an everlasting beginning, devoid of accomplishment and without other aim than the multiplication of nervous reactions to a variety of accidental and rapidly succeeding stimuli. The much despised *τὸ τέλος* is essential to any movement that is progress; anything else is mere intellectual, social and political wriggling.

With the decline of genuine educational guidance and helpful discipline there has gone an increasingly vigorous warfare on excellence and distinction of every kind, which is truly pathetic in its destructiveness. Youth are told that they must exert themselves and excel, but if they chance to take this advice and succeed they are then pointed to as the evil products of a harmful and ill-organized social system. So long ago as October 31, 1888, Professor Goldwin Smith, an inveterate liberal and a keen observer of his kind; wrote to Mrs. Humphrey Ward: "Over the intellectual dead-level of this democracy opinion courses like the tide running in over a flat." Under such conditions the mob spirit becomes increasingly powerful. The demagogue, the persistent and plausible self-seeker, and those who possess or can command the large sums of money needed to advertise themselves throughout the land, occupy the largest place in the public eye and actually come to think of themselves and be thought of as representative Americans. It is not surprising that at least three-fourths of the best ability and best character in the United States remains in hiding, so far as public knowledge and public service are concerned.

It is significant, too, that in this period of vigorous and able-bodied reaction the world should be without a poet, without a philosopher, and without a notable religious leader. The great voices of the spirit are all stilled just now, while the mad passion for gain and for power endeavors to gratify itself through the odd device of destroying what has already been gained or accomplished.

To get back upon the path of constructive progress will be a long and difficult task. A first step will be to bring back the elementary school to its own proper business. The elementary school being universal, well-organized and easily accessible, has been seized upon by faddists and enthusiasts of every type as an instrumentality not for better education, but for accomplishing their own particular ends. The simple business of training young children in good habits of diet and exercise and conduct; of teaching them the elementary facts of the nature which surrounds them and of the society of which they form a part; and of giving them ability to read understandingly, to write legibly and to perform quickly and with accuracy the fundamental operations with numbers, has been pushed into the background by all sorts of enterprises that have their origin in emotionalism, in ignorance, or in mere vanity. Through lack of knowledge of educational values, and their fear of an uninformed public opinion, the secondary schools and the colleges have very largely abdicated their place as leaders in modern life and have become the plaything of whatever temporary and passing influences may operate upon them. In the hope of becoming popular they have thrown overboard principle. Throughout elementary school, high school and college, teachers are too often not teachers at all, but preachers or propagandists for some doctrine of their own liking. One would think that the business of teaching was sufficiently simple and sufficiently important to be kept unconfused

with other forms of influence; but such has not been the case. Very many teachers are preachers or propagandists first and teachers afterwards.

It is in conditions like these that one must look for an explanation of the costly ineffectiveness which is so sharply charged against present-day education in the United States. We are told that boys and girls, young men and young women, spend years apparently in study and then leave school or college without a trained intelligence, without any standards of appreciation in art or in morals, with wretched manners, with slovenly speech, and without capacity to approach a new problem dispassionately or to reason about it clearly. It is asserted that we devote untold skill and labor to the teaching of French, of Spanish and of German, and yet the high school or college graduate who can speak or write any one of these languages correctly and freely, or read them save with difficulty, is rare indeed; that for fifty years we have poured out money without stint for the teaching of the natural and experimental sciences, and have provided costly laboratories and collections to make that teaching practical, yet the result, so far as giving a general command of scientific method or general knowledge of scientific facts is concerned, is quite negligible; that school and college students spend years upon the study of history and yet few really know any history; that these students are uniformly taught to read and are guided toward reading that which is worth while, yet it is clear that the greater part of their reading is of that which is unworthy to be read. More criticism than was ever leveled against the study of Latin, Greek and mathematics based upon the meager practical results obtained, can be repeated with equal force against those newer subjects of school and college study which have so largely displaced Latin, Greek and mathematics.

In Columbia College a definite and well-considered attempt is making to overcome these unfortunate conditions of modern education, and to build a wise, judicious and truly educational program of study upon a sound foundation. This foundation is provided by the course entitled Introduction to Contemporary Civilization, prescribed for all members of the Freshman Class, and given five times weekly throughout Freshman Year. The purpose of this course is to give the student early in his college residence a body of objective material upon which to base his own later and more advanced studies and his own judgments concerning the world in which he lives. A result of prescribing this course for all Freshmen is to make sure that every student in Columbia College has a common starting point and a single point of vantage from which to study, to understand and to appreciate the world of nature and of man. It is significant, too, that in this course the student is brought at once face to face with real interests and with genuine problems as they exist today. These interests and these problems are then placed in their historic setting, the story of their development is traced, and they are analyzed into their simplest parts. The large measure of success that has attended the introduction of this course, and the great interest taken in it by the undergraduates themselves, indicate that the Faculty of Columbia College is on the right track, and that it seems likely to do its full part in rescuing American college education from the reproach that is so often heaped upon it, sometimes perhaps unjustly, but too frequently with a measure of justice that we cannot refuse to recognize.

The College Faculty has gone farther and in establishing a special course of reading, to be followed through two years by candidates for general honors, has recorded its conviction that the college graduate may properly be held to some knowledge of the masterpieces in litera-

ture, in poetry, in history, in philosophy and in science. The reading list at present given to candidates for the degree of Bachelor of Arts with general honors, includes: Homer, Herodotus, Thucydides, Aeschylus, Sophocles, Euripides, Aristophanes, Plato, Aristotle, Lucretius, Horace, Plutarch, Marcus Aurelius, St. Augustine, The Nibelungenlied, The Song of Roland, St. Thomas Aquinas, Dante, Petrarch, Montaigne, Shakespeare, Cervantes, Francis Bacon, Milton, Molière, David Hume, Montesquieu, Voltaire, Rousseau, Adam Smith, Lessing, Kant, Schiller, Goethe, Macaulay, Victor Hugo, Hegel, Darwin, Lyell, Tolstoi, Nietzsche.

This provides a rich feast of reason, and if it is wanting in any respect it is in not sufficiently representing the fine arts, other than poetry, which have in every age been the finest flower of a people's aspiration.

Every conceivable explanation of unrest, dissatisfaction and disorder that prevail throughout the world has been proposed except the one which is probably the deepest and most important. For between two hundred and three hundred years the modern world has been in a state of intellectual upheaval, although there are those who think that this condition began with the world war or was caused by it. This upheaval has grown constantly more widespread and more severe. The forces that lie behind it have profoundly affected the religious life and the religious faith of great masses of men, have shaken their confidence in age-old principles of private morals and of public policy, and have left them blindly groping for guiding principles to take the place of those that have lost their hold. A generation ago John Fiske, in one of his luminous essays, pointed out that a necessary effect of the Copernican theory of the universe was to make the earth and its inhabitants seem so small

The New  
Paganism

and insignificant as to be quite unimportant in the scheme of things and to transfer the center of gravity of man's interest to suns and worlds far more vast and far more important than ours. While the Copernican theory may logically seem to have required this result, what has happened is quite different. Man's attention and interest have been increasingly turned to himself, his immediate surroundings, and his instant occupation. Having come to feel himself quite superior to all that has gone before, and being without faith in anything that lies beyond, he has tended to become an extreme egotist. The natural result has been to measure the universe in terms of himself and his present satisfactions. His own emotions and his own appetites, being present and immediate, take precedence in the shaping of conduct and of policy over any body of principles built up by the experience of others. The wisdom, the justice, the morality of an act or policy are then tested solely by its immediate results, and these results are increasingly measured in terms of the material and emotional satisfactions of the moment.

In a world so constituted and so motivated unrest, dissatisfaction and disorder are a necessity. Set free a million or a thousand million wills to work each for the accomplishment of its own immediate material satisfactions, and nothing but unrest, dissatisfaction and disorder is possible.

What appears to have happened is that in setting free the individual human being from those external restraints and compulsions which constitute tyranny, he has also been set free from those internal restraints and compulsions which distinguish liberty from license. The pendulum has swung too far. The time has come, the time is indeed already past, when the pendulum should begin its swing backward toward the middle point of wisdom, of sanity, of self-control and of steady progress.

There is no man, there is no people, without a God. That God may be a visible idol, carved of wood or stone, to which sacrifice is offered in the forest, in the temple, or in the market-place; or it may be an invisible idol, fashioned in a man's own image and worshipped ardently at his own personal shrine. Somewhere in the universe there is that in which each individual has firm faith, and on which he places steady reliance. The fool who says in his heart "There is no God" really means there is no God but himself. His supreme egotism, his colossal vanity, have placed him at the center of the universe which is thereafter to be measured and dealt with in terms of his personal satisfactions. So it has come to pass that after nearly two thousand years much of the world resembles the Athens of St. Paul's time, in that it is wholly given to idolatry; but in the modern case there are as many idols as idol worshippers, and every such idol worshipper finds his idol in the looking-glass. The time has come once again to repeat and to expound in thunderous tones the noble sermon of St. Paul on Mars Hill, and to declare to these modern idolaters "Whom, therefore, ye ignorantly worship, Him declare I unto you."

There can be no cure for the world's ills and no abatement of the world's discontents until faith and the rule of everlasting principle are again restored and made supreme in the life of men and of nations. These millions of man-made gods, these myriads of personal idols, must be broken up and destroyed, and the heart and mind of man brought back to a comprehension of the real meaning of faith and its place in life. This cannot be done by exhortation or by preaching alone. It must be done also by teaching; careful, systematic, rational teaching, that will show in a simple language which the uninstructed can understand what are the essentials of a permanent



and lofty morality, of a stable and just social order, and of a secure and sublime religious faith.

Here we come upon the whole great problem of national education, its successes and its disappointments, its achievements and its problems yet unsolved. Education is not merely instruction—far from it. It is the leading of the youth out into a comprehension of his environment, that, comprehending, he may so act and so conduct himself as to leave the world better and happier for his having lived in it. This environment is not by any means a material thing alone. It is material of course, but, in addition, it is intellectual, it is spiritual. The youth who is led to an understanding of nature and of economics and left blind and deaf to the appeals of literature, of art, of morals and of religion, has been shown but a part of that great environment which is his inheritance as a human being. The school and the college do much, but the school and the college cannot do all. Since Protestantism broke up the solidarity of the ecclesiastical organization in the western world, and since democracy made intermingling of state and church impossible, it has been necessary, if religion is to be saved for men, that the family and the church do their vital cooperative part in a national organization of educational effort. The school, the family and the church are three cooperating educational agencies, each of which has its weight of responsibility to bear. If the family be weakened in respect of its moral and spiritual basis, or if the church be neglectful of its obligation to offer systematic, continuous and convincing religious instruction to the young who are within its sphere of influence, there can be no hope for a Christian education or for the powerful perpetuation of the Christian faith in the minds and lives of the next generation and those immediately to follow. We are trustees of a great inheritance. If we abuse or neglect that trust we are responsible before

Almighty God for the infinite damage that will be done in the life of individuals and of nations.

The contacts and associations of civilized men are many and various. The two contacts and associations that have been most lasting and most influential are those which constitute the State and the Church. The State is the expression of man's ability to cooperate with his fellows in establishing law, in preserving order, and, as the generations pass, in protecting the opportunity of each individual to achieve and to enjoy liberty. The Church is the expression of man's desire to cooperate in worship of the object of his faith. Both State and Church have a long and familiar history, and there is no need to recount any part of it here. Of the other contacts and associations of men, none is likely to be considered more important than that which has for its purpose the conservation, the advancement, and the dissemination of knowledge, together with the pursuit of truth, upon which activity all knowledge depends for its vital power. When men are sufficiently convinced that the pursuit of truth is an object worthy of their lifelong endeavor, the university as we now know it comes into existence as both the voice and the symbol of this form of human activity. When men associate together in pursuit of truth, their ruling thought is not agreement, but truth as each finds and interprets it. For this reason there will be in the university nothing which approaches agreement or unity as to matters of politics or religion beyond the fact that honest and sincere men are protected in their right to hold such political and religious views as they may choose, provided only that these are consistent with the pursuit of truth itself and with the welfare and usefulness of the particular society of scholars to which they belong. With all the good will in the world

The University,  
Politics and  
Religion

toward an individual who might dissent from the multiplication table or insist that he had solved the problem of perpetual motion, the teachers of mathematics and of physics would not be able to find a place for him in their teaching ranks. Somewhere in the fields of religion and politics a similar line is to be drawn, but it is difficult to find, and still more difficult to apply if found.

There is no recognized doctrine of human liberty which extends to the individual the unchallenged right to take his own life. If he attempts it he is forcibly prevented, and if he attempts it and fails, he is punished. What is true of an individual is true likewise of men's associations in the State and in the Church. There comes a time when dissent takes on the form of suicide or assault with intent to kill, and when, therefore, it is prevented and punished. The philosophical basis for this is clear enough. There can be no serious discussion of truth and no sincere attempt to answer the question of jesting Pilate, unless it be assumed that there is such a thing as truth to be pursued, and if possible, found. When found and demonstrated, truth is to be recognized and acted upon. It will not do for someone else to say that he has a wholly contrary conception of truth, or that truth for him means something quite other than truth for anyone else. Some forms of this genially inconsequent doctrine are just now enjoying a certain short-lived popularity based upon a false psychology and a grievous travesty on philosophy, but their irrationality and the immorality of conduct based upon them are so obvious that their life is certain to be short.

Underlying the organization of the university, then, there is a certain general, very general, agreement on a series of fundamental assumptions as to the State and the Church; Columbia University, for instance, is both American and Christian. Unless a university entirely abandons its own peculiar aim and becomes merely an

instrument of propaganda for some specific doctrine, it cannot in its institutional capacity properly go beyond this and be drawn into either political or religious controversy. Its individual members, be they few or many, will follow the guidance of their several heads and hearts in seeking or accepting political and religious associations and in advancing specific political or religious doctrines; but they will not, indeed they cannot, thereby commit the university to their own convictions or beliefs.

It must be borne in mind, then, that any member of a university who does his duty as he sees it in citizenship and in the religious life is doing it solely as an individual, and that his university relationship or activity is in no wise affected thereby. This is a hard lesson for some observers of contemporary life to learn. They do not seem able to understand how it is that one individual may have a variety of human associations and yet not commit them all to his own course in relation to any one of them. Clear thinking will distinguish between men's different associations, and it will be able to render unto Caesar the things which are Caesar's, and to render unto God the things which are God's.

The striking advances that have been and are being made in the organization and work of the College are set out in detail in the report of the Dean. The results thus far obtained from the new plan of admission are of exceptional interest and would appear to indicate that the principles of this plan are susceptible of application much more widely and beyond the limits of a university. Of particular interest are the careful studies being made to discover how students admitted in each one of the several ways now permitted perform their college work after admission. The useful possibilities of such tests as these are very great.

Columbia  
College

The undergraduates are now drawn from all parts of the United States and are representative of almost every type and group of American citizen. A chief task of the College is to give to this undergraduate body a unity, a self-consciousness and a conviction of purpose that will dominate the College life and College interests of its members. This is being accomplished by the prescribed course entitled Introduction to Contemporary Civilization, of which mention has already been made in this report [p. 22], by the institution of a general assembly hour, and by the personal labors of the Dean and his assistants. The extra-curricular activities of the undergraduates all make to the same end, and these have never been on a sounder basis than at the present time. The outdoor sports and the athletic contests are being carried on in admirable fashion and under the devoted and skillful supervision of a loyal body of alumni.

The College will be still farther strengthened and its unity still better protected by the practical operation of the plan for the care of university undergraduates unanimously adopted by the University Council in April last. The term university undergraduate is used to define a student who, while not enrolled in Columbia College, comes to Columbia University for professional, graduate or special work after having spent a number of years in another college or perhaps having been graduated from such college, but who, for one reason or another, is not qualified for full acceptance as a student in one of the professional or graduate schools. This class of student, now numbering several hundred each year, illustrates the nation-wide influence and invitation of Columbia University, and the response made to that invitation by ambitious students in all parts of the land. To reject these university undergraduates would be to refuse to correlate the work of Columbia University to colleges other than Columbia

College and Barnard College, and would destroy at one stroke the pretensions of the University to be a national institution. On the other hand, to force these students into Columbia College or Barnard College would be to restrict their opportunities, to require them to take certain academic work for which they have no desire, and to weaken the unity of the undergraduate body in Columbia College and in Barnard College. These are some of the reasons why the University Council has proposed to group these university undergraduates by themselves and to keep supervision of them in the hands of the University Council. Their interests will be cared for by a Committee of the Council and they will, on the completion of a proper amount of work, be recommended for the degree of Bachelor of Science in general studies by the Council. The proper and legitimate work of Columbia College and of Barnard College will in no wise be interfered with, and the students in those colleges and they alone will continue to go forward to the degree of Bachelor of Arts.

The plan is an ingenious and highly practical one. It is the outcome of the experience of the past twenty years and a result of the intimate relations in which Columbia University stands to several hundred colleges and scientific schools throughout the country.

The Dean of the Graduate Faculties indicates in his report a chief difficulty in the way of the better and more extensive organization of research.

He points out that the colleges and technical schools from which the graduates come do not, as a rule, give a kind of education which makes for scholarship of high character. The result is that college and technical school graduates too often come with a desire to enter upon graduate studies without having first mastered the preliminary and readily accessi-

Organization of  
Research

ble data of the subject of their choice. For this reason the Graduate Faculties are frequently unable to organize their work as they would most like to do or to get the best results from the courses that are conducted. The Graduate Faculties have been steadily sifting the students who come to them, and now require very distinct evidence of competence to proceed to a higher degree before admitting a student to register as a candidate for such degree. They still need to sharpen the distinction between undergraduate and graduate work, between undergraduate and graduate methods, for it is as wasteful and harmful to instruct a Freshman or a Sophomore by those methods that are suitable to graduate and professional students as it would be to attempt to guide the latter by methods which produce good results with Freshmen and Sophomores.

These Faculties should also be aided and encouraged to develop special institutes for research, such as the Psychological Institute and the Oriental Institute that are described in the report of the Dean. The organization and equipment of these institutes are a natural and almost necessary step in the development of the University's instrumentalities for research. Cooperation in research between the University and other organized bodies should be encouraged; and in particular the University should make sure that it neglects no opportunity to serve the public by directing its researches toward the solution of pressing problems in agriculture, in economic and industrial life, and in the conduct of public undertakings.

An important decision was made by the Trustees on January 3, 1910, to make possible a scholarly undertaking which, it was believed, would add to the renown of the University and be a distinct contribution to the literature of the English language as well. At the time of the celebration in 1909 of the three hundredth anniversary of the

birth of John Milton, public attention was called to the fact that despite Milton's preeminence, there is no single definitive and complete collection of his writings, both prose and poetry, in existence. It was then decided that the editing and publication of such a complete and definitive edition of Milton's works should be undertaken by the University. Various unforeseen contingencies, and the conditions arising out of the War, made it impracticable to proceed at once with the undertaking as planned. On May 3, 1920, the Committee on Education again brought this matter to the attention of the Trustees, and the President was authorized to arrange for the preparation and publication through the Columbia University Press of a definitive edition of the complete works of John Milton, under the editorship of members of the Department of English and Comparative Literature. Steps have already been taken to carry out this plan, and the works of John Milton in eight volumes under the general editorship of Professor Trent, assisted by Professors Erskine, Ayres, Haller, Nelson G. McCrea, Krapp, and others, will, it is expected, begin to appear from the press in 1922. It is the confident hope that the Columbia University Edition of Milton will be accepted as a standard work throughout the English-speaking world.

Another undertaking of importance and general public interest is the examination and editing of the papers of De Witt Clinton of the Class of 1786, which has been assigned to Assistant Professor Dixon Ryan Fox of the Department of History. De Witt Clinton's long public career as member of Assembly and as Senator of the State of New York, as United States Senator, as Mayor, as Lieutenant-Governor, and as Governor, and the important public policies and improvements that are associated with his name, combine to make the publication of his papers of more than usual significance.



In the report of the Director of the George Crocker Special Research Fund will be found a record of the experimental work carried on during the year and of the results, both positive and negative, that have been obtained. The establishment of this fund by bequest of the late George Crocker was a model act of its kind. It enabled the University to keep at work in an important and difficult field, year in and year out, a sufficient body of highly trained investigators to promise ultimate success in the solution of one of the most vexed and anxious problems that confront the human race. It must be that sooner or later the dread disease which is under unremitting observation in the Crocker Laboratories, will yield the secrets of its cause and cure to the devoted body of scientific workers who are engaged upon its study.

The School of Law has quickly recovered from the effects of the war and is facing its own peculiar problems with vigor and courage. Perhaps the most important matter to be dealt with is adequate provision for legal research and for building upon the foundations afforded by the School of Law a group of advanced students working in the history and philosophy of law, in the field of comparative jurisprudence, and in the interesting and important relations between law and modern economic and industrial development.

The *Columbia Law Review* needs more adequate support. The increased cost of printing this Review can only be met by a larger and more generous measure of support from members of the Bar, and particularly from those who have been graduated from the School of Law itself. The *Review* is not only a creditable publication in its own field, but it is an integral part of the scheme of instruction in the School of Law. The training and

discipline afforded by work upon the *Law Review* board are highly esteemed and are duly weighed by the Faculty in recommending students for graduation. If every alumnus of the School of Law were to make it a point to become a subscriber to the *Columbia Law Review*, its continuance and prosperity would be fully assured.

The newly appointed Dean and Associate Dean, together with the Committee of the Faculty on Administration with its new authority, have worked hard to become familiar with existing problems and to seek their solution. The details of the business of the year are set out in the report of the Dean.

School of  
Medicine

Until the University is put in financial position to make new and thoroughly modern provision for the Medical School and to place it in the immediate neighborhood of the Presbyterian Hospital, nothing more will be practicable than to make the best of present limited and hampering conditions and to continue to train physicians and surgeons of the highest type despite the difficulties by which that task is surrounded. It has excited comment that while millions of dollars are easily found to build or to rebuild and to equip medical schools in distant parts of the earth and in small towns, no real response has been received to the University's earnest and oft-repeated appeals for the funds with which to deal adequately with the problem of medical teaching and research in the city of New York, where the opportunities for service are so great as almost to defy exaggeration. It is not easy to add anything to what has been said on this point in earlier Annual Reports. The income from the DeLamar Fund, when wholly available, will do no more than meet the present annual deficiency in the cost of maintaining the Medical School when the new work called for by the terms

of the bequest has been organized and put under way. The large sums heretofore described as necessary for the purchase of land, for the erection of new buildings, and for the proper endowment of the work of teaching and research in medicine, are even more needed today than when appeal for them was first made. There is here an unexampled opportunity for public service and for personal distinction on the part of an individual or group of individuals who will make possible the speedy execution of the wise and thoroughly studied plans that have been made in cooperation with the Presbyterian Hospital for the reconstruction and expansion of the School of Medicine.

It may be worth while to recall the fact that on January 5, 1903, the Committee on Education, in their report making recommendations for consideration in connection with the budget for 1903-1904, submitted a carefully studied program for the development of the Medical School. It would not be easy even now to improve upon the statement contained in that report made nearly eighteen years ago. It was pointed out that to bring the Medical School to a true university basis involved getting completely away from the traditions of the proprietary school period. The following nine points were then stated as constituting the program of progress which the University desired to follow:

1. Raising the standard of admission to a point where the medical student will have had not less than two years of college training, such training to include an elementary knowledge of physics, chemistry and general biology.
2. Reconstructing the medical school curriculum so as (a) to provide for adequate laboratory instruction and section teaching for all students to an extent that will make outside classes or "quizzes" wholly unnecessary, and (b) to make a just allotment of time to the laboratory subjects—i. e., anat-

omy, physiology, pathology, physiological chemistry and pharmacology—to medicine and surgery, and to the special clinical departments. This can only be accomplished by concerted faculty action taken in pursuance of certain definite principles, as a substitute for the policy whereby each department in effect fixes the amount and disposition of the time at its disposal.

3. Completing the equipment of the laboratories of anatomy, physiology, pathology and physiological chemistry, and installing laboratories of pharmacology and toxicology, and adding instruction in public health and sanitation, the history of medicine and allied topics.

4. Providing for a university hospital, or a hospital under university control, where the clinical teaching may be carried on under the most favorable conditions.

5. Recognizing the fact that a distinction should be drawn between the salaries paid to those professors who devote their entire time to the work of the University and those who combine private practice with clinical teaching or didactic lecturing. In an ideal system it might well be that all professors in the medical school would give their entire time to university duties, to hospital work, and to research.

6. Increasing the salaries of junior officers so that a larger number of them may be asked to devote their entire time to the university work of teaching and research.

7. Constituting the faculty as all other university faculties are constituted, with no special privileges assigned to the incumbents of the seven traditional chairs.

8. Inculcating the spirit of research in every department and developing methods of comparative study.

9. Offering facilities for graduate courses one or two years in length and for larger opportunities to become thoroughly competent in special branches of medicine and surgery.

The Committee on Education then said that, building upon the great and deserved reputation of the College of Physicians and Surgeons, the effective carrying out of this program offered to the Trustees opportunity to make the

Medical School as efficient as any center of medical teaching and research in the world.

In the intervening years every one of the aims and ideals mentioned in the report of January 5, 1903, has been accomplished wholly or in greater part. This program was formulated and made public long before the present movement for improvement in medical education had begun. In this respect, as in so many others, the policies of Columbia University were in advance of the time. Perhaps for that very reason the funds needed to carry them out effectively have not been obtained, even after eighteen years of constant and most urgent appeal.

Provision was first made in 1917 for the admission of women to the Medical School. Since that time forty-eight women have been admitted, and their record as students has been admirable. It is reasonable to believe that the University will, year by year, contribute a steadily increasing number of highly trained women physicians, surgeons and public health officers for the service of the public.

The Annual Report of 1919 discussed at some length the problems and standards of engineering education, and in particular, the principles and policies upon which rests the new and advanced course of instruction and research in applied science. Because of these principles and policies the student attendance in the Schools of Mines, Engineering and Chemistry is at present small. On the other hand, a satisfactory number of undergraduates in Columbia College have indicated their intention to enter some one of the Schools of Applied Science later on, and there is reason to believe that as the scope and character of the new and advanced courses become better understood by engineers and by teachers in

Schools of Mines,  
Engineering and  
Chemistry

other colleges and scientific schools, they will attract an increasing number of students of the highest type from all parts of the United States. The sharp decline of interest in mining and metallurgy and the increased interest in chemical engineering, have been reflected in the student enrollment at Columbia. It is the aim of the Faculty of Applied Science to train men who will be genuine leaders among American engineers, and to leave no stone unturned to make the training of such leaders sound, thorough and practical.

This school has been undergoing reorganization for some years past and is now well established upon its new and more satisfactory basis. The balance between historical and theoretical study and practical instruction is well maintained, and the students of architecture are given opportunity to meet, to hear, and sometimes to work with leading architects in practice in the City of New York. The aim of the School of Architecture, as in each one of the University's professional and technical schools, is to keep the work of instruction in close touch with the practical problems of the moment. The old and traditional barrier between the academic and the practical has largely been broken down at Columbia, for here the academic is merely the practical carefully studied, minutely examined, and interpreted through more complete understanding and reflection.

The report of the Acting Director of the School of Journalism for the year ending June 30, 1920, records the retirement of the Director from active service, and tells in some detail of the progress and changes made during the year. It is not too late to direct attention to the last report of Director Talcott

Williams himself, which covered the year ending June 30, 1919, and was of exceptional interest. That report not only traced the effects of the war upon the School itself and upon the calling of the journalist, but it set forth in truly philosophical and most suggestive fashion those changes in journalism itself which must guide the School in its policies and development. The measure of indifference or of cynicism with which the establishment of the School was received has now passed away. Experience has shown that there was solid substance behind Mr. Pulitzer's vision, and what the Director happily called the annual probate and administration of his Will has fully justified his hopes and his generous benefaction. The School of Journalism is still in its infancy. It has been placed upon a solid foundation of scholarship and of professional knowledge and insight. Its organization is so flexible that it can readily be adapted to such changes as time may bring. All this, except Mr. Pulitzer's own vision, we owe to the first Director of the School, who at the close of the academic year 1918-1919 laid down his active work and retired from University service to become Emeritus Professor of Journalism.

Dr. Talcott Williams brought to the School of Journalism a unique equipment of learning, of understanding of the American people, and of long and varied professional experience in the making of great newspapers. Perhaps no other man in America had his qualifications for the task that was laid upon him eight years ago. How splendidly he discharged that task, and how completely he rose to the height of his responsibilities and opportunities the record relates and his colleagues gladly testify. In these eight years he built a monument more lasting than bronze, and one which the changes of time will not be able to destroy. The School of Journalism is not to be deprived of the inspiration, of the presence

and of the advice of Dr. Williams, but he will now be free for still larger tasks of good citizenship and the guidance of public opinion.

The Administrative Board of the School of Business awaits with anxious patience for the time to come when work may be begun upon the building for the use of the School, which will occupy the site at the north-east corner of Broadway and 116th Street. The students in attendance are reported to be of exceptional capacity and devotion, and are treating their academic work as serious and practical preparation for what has, to all intents and purposes, become a professional career. The points of contact between the Faculty and courses of instruction on the one hand, and men of affairs as well as commercial, industrial and financial institutions on the other, are both many and close and are steadily increasing.

School of  
Business

The high standards of admission insisted upon by the Administrative Board of the School of Dentistry make any large enrollment or rapid growth impossible. The University is more concerned with fixing sound and high standards of dental education and in training students for leadership in this important branch of surgery, than in securing a large attendance. Members of the medical profession now realize as never before the important place that dentistry holds in any modern scheme for protecting the public health and for curing disease. The relations between the School of Dentistry and the Medical School will grow closer as time passes. The admirable work being done in this field would not be possible but for the generous support and willing cooperation of leaders in the dental profession.

School of  
Dentistry



The recommendation of the Director that the title University Extension be substituted for Extension Teaching is sound and should be approved. The work being carried on under this head is educational in the highest sense and includes much more than mere teaching. Primarily it is the University's contribution to the cause of adult education, a type of work that just now is even more important than the education of children and of youth. For the vast majority of young men and young women, too long a period of school and college attendance, and too long an abstention from the practical work of life, is not beneficial or desirable. There is no better training than that which comes from systematic participation in useful and productive industry. Such training can do more for many persons than can be accomplished by the study of books or attendance upon lectures. At the same time if these persons have been properly trained in elementary and secondary schools they will be most anxious to continue some kind of formal study, if that be possible without interfering with their stated occupation. Thousands of men and women of this type are reached and helped by the work of University Extension. The fact that such persons are not candidates for degrees, or are not devoting themselves exclusively to academic study, does not in the least detract from their devotion or their capacity as students. The University is doing no better work than this, and there is no reason, save the limitations of space and time, why this field of activity should not be indefinitely extended.

The Institute of Arts and Sciences has now completed its seventh year, and has fully established itself in the confidence and esteem of the public. Because of the lack of a large auditorium it has been found necessary to limit the number of subscribers to the work of the Institute, a fact which is much to be regretted. The total attendance

upon the various exercises of the Institute during the past year was nearly 90,000.

A substantial beginning has been made in the organization of Home Study. Outlines of work have been carefully prepared and administrative arrangements effected that make it possible for this work to develop very rapidly and very helpfully in the near future. Everyone who undertakes Home Study has been given plainly to understand that this work must be followed for the benefits which immediately accrue from it, since it has no bearing whatever upon candidacy for any academic degree. Through the development of Home Study, Columbia University will place its great educational resources at the disposal of many thousands of students who are unable to enroll as resident members of the University.

Professor James Chidester Egbert, who conducted the work of the Summer Session for eighteen years at great personal sacrifice and with striking success, retired from the post of Director at the beginning of the last academic year. In this work, as in that of Extension Teaching, Professor Egbert has shown the possession of the qualities that mark a really great administrator, grasp of principle, knowledge of detail, imagination and power of quick decision. Professor Egbert has been succeeded in the Directorship by Professor John J. Coss of the Department of Philosophy.

Summer Session

As the report of the Director shows, the attendance at the Summer Session of 1920 was 9,780, of which number one-third were men and two-thirds women. Nearly 7,000 of these students came from beyond the limits of New York State, and no fewer than 237 were from foreign countries. The courses of instruction offered number 689, and were given by 492 instructors and 83 assistants.

The experience of the past twenty years has more than justified every prediction made when the Summer Session was first organized, and it is now both an integral and a highly characteristic part of the work of the University.

By generous benefactions the resources of Barnard College have been largely increased during the year, and the Trustees of that corporation are thereby enabled to bear their full share in the work of the University. Teachers appointed upon the nomination of Barnard College receive like salaries with their colleagues in other parts of the University.

The University has every reason to be satisfied with its handling of the problems growing out of the higher education of women. The separate and coordinate undergraduate colleges, working side by side and in close cooperation, offer college training to men and women of similar standards and of like content, but with ample opportunity for adjustment to those differences between students, which are in part differences of sex and in part differences of individual temperament and ambition.

The Trustees of Barnard College hold property valued, approximately, at \$6,250,000, and the budget appropriations for the year ending June 30, 1920, were approximately \$480,000.

The problems of Teachers College are just now in large part those resulting from rapid growth and expansion of activity. More residence halls, more classrooms and more space for activities of various kinds, is the insistent demand. The Trustees have been fortunate in their ability to meet most of these needs, and are justified, by the reputation and service of the College, in expecting that measure of public support which will make early provision for all of them.

The Trustees of Teachers College hold property valued, approximately, at \$8,150,000, and the budget appropriations for the year ending June 30, 1920, were approximately \$1,690,000.

The Trustees and Faculty of the College of Pharmacy have worked long and earnestly, and in the face of many difficulties, to raise the standard of pharmaceutical education, and to encourage advanced study and research in a field of public service closely allied to medicine on the one hand, and to the sciences of botany and chemistry on the other. The College of Pharmacy is easily a leader in its field of work, and it is no idle prophecy to predict that before many years have passed its standards of admission and of accomplishment will be those of the older professional schools in the University.

College of  
Pharmacy

The Trustees of the College of Pharmacy hold property valued, approximately, at \$402,000, and the budget appropriations for the year ending June 30, 1920, were approximately \$67,000.

For over four years the direction of the University Library has been in the hands of the Provost of the University as Acting Librarian. Under his oversight the administration of the Library has greatly improved and advanced. It is difficult to do more without the greatly increased appropriations that the Library so sorely needs. The development in recent years of special studies for students of differing classes and types has had admirable results, and while this system increases the cost of administration, it also greatly increases the efficiency of the Library service.

University  
Library

The members of the Library staff have shared to some extent in the recent increase in salaries, but considerably

larger appropriations than are now possible must be made if the members of the staff are to be adequately paid, if the annual accessions are to be sufficient and of the right sort, and if the books themselves are to be kept in thoroughly good condition for use.

In the Treasurer's Report (pp. 434-437) will be found a detailed list of gifts and bequests received during the year.

**Gifts** The total amount of these additions to the corporate funds is \$2,305,080.78. By far the largest single item is the payment of two million dollars made by the Executors of the Estate of the late Joseph R. DeLamar, to establish the DeLamar Fund for the benefit of the School of Medicine. The University is profoundly grateful not only for the large benefactions which so constantly mark the confidence of the public in its work, but for those scores of smaller gifts reflecting generous interest in some particular undertaking or in some special detail of the University's activity that are so constant and so indispensable.

For the purpose of comparison with previous reports, there follows the usual summary of gifts in money received during the year by the several corporations included in the University.

| <i>Purpose</i>        | <i>Columbia University</i> | <i>Barnard College</i> | <i>Teachers College</i> | <i>College of Pharmacy</i> | <i>Totals</i>         |
|-----------------------|----------------------------|------------------------|-------------------------|----------------------------|-----------------------|
| General Endowment     | 76,268.39                  | \$875,600.49           | \$19,983.32             |                            | \$971,852.20          |
| Special Funds         | 2,210,413.71               | 59,126.21              | 23,120.84               |                            | 2,292,660.76          |
| Buildings and Grounds | 18,398.68                  |                        | 363,068.22              |                            | 381,466.90            |
| Immediate Use         | 75,013.78                  | 2,177.50               | 1,010.00                |                            | 78,210.28             |
| <b>Total</b>          | <b>\$2,380,094.56</b>      | <b>\$936,904.20</b>    | <b>\$407,182.38</b>     |                            | <b>\$3,724,181.14</b> |

The following statement records the gifts made in money alone since 1890 to the several corporations included in the University:

|                    |                        |
|--------------------|------------------------|
| 1890-1901.....     | \$5,459,902.82         |
| 1901-1919.....     | 30,884,910.00          |
| 1919-1920.....     | 3,724,181.14           |
| <i>Total</i> ..... | <i>\$40,068,993.96</i> |

On November 4, 1919, Calvin Thomas, LL.D., Gebhard Professor of the Germanic Languages and Literatures, in the sixty-sixth year of his age.

On November 5, 1919, Charles W. Weich, S.B., Assistant Professor of Industrial Arts in Teachers College, in the fifty-sixth year of his age. Deaths of  
University  
Officers

On November 19, 1919, Floyd M. Crandall, M.D., Lecturer on Medical Ethics, in the sixty-second year of his age.

On November 20, 1919, George F. Fisher, formerly Bursar of the University, in the seventy-sixth year of his age.

On November 28, 1919, James Maclay, Ph.D., Professor of Mathematics, in the fifty-sixth year of his age.

On February 27, 1920, Alfred J. Moses, Ph.D., Professor of Mineralogy, in the sixty-first year of his age.

On March 2, 1920, Francis Sedgwick Bangs, A.B., LL.B., a Trustee of the University since 1900, in the sixty-fifth year of his age.

On March 2, 1920, Willard T. Barbour, LL.B., B.Litt., Carpentier Lecturer on English Legal History, in the thirty-sixth year of his age.

On May 26, 1920, Frederic B. Jennings, A.B., LL.B., a Trustee of Barnard College since 1900, in the sixty-seventh year of his age.

On June 3, 1920, Francis M. Burdick, LL.D., Dwight Professor Emeritus of Law, in the seventy-fifth year of his age.

On July 16, 1920, Miss Lavinia Tallman, Assistant Professor of Religious Education in Teachers College, in the forty-first year of her age.

On July 28, 1920, Albert H. Stevenson, D.D.S., Professor of Preventive Dentistry, in the thirty-seventh year of his age.

On September 21, 1920, George M. Lefferts, M.D., Emeritus Professor of Laryngology, in the seventy-fifth year of his age.

On October 13, 1920, Luther Herbert Alexander, Ph.D., Instructor in Romance Languages and Literatures in Barnard College, in the fifty-ninth year of his age.

For record and for comparison with previous years, there follow the usual tabular statements as to the University site, teaching staff, student enrollment and number of degrees conferred for the academic year 1919-1920.

## THE SITE

|   | Square Feet      | Acres          |
|---|------------------|----------------|
| <b>A. 1. <i>At Morningside Heights</i></b>      |                  |                |
| Green and Quadrangle                            | 734,183          | 16.85          |
| South Field                                     | 359,341          | 8.25           |
| East Field                                      | 90,825           | 2.08           |
| Columbia House                                  | 1,809            | .041           |
| Maison Française                                | 1,809            | .041           |
| Residence of the Dean of the College            | 1,809            | .041           |
| Residence of the Chaplain                       | 1,809            | .041           |
| Claremont Avenue Property                       | 29,000           | .679           |
|   | <b>1,220,585</b> | <b>28.023</b>  |
| <b>2. <i>At West 50th Street</i></b>            | <b>75,312</b>    | <b>1.73</b>    |
| <b>B. Barnard College</b>                       | <b>1,295,897</b> | <b>29.753</b>  |
| <b>C. Teachers College</b>                      | <b>177,466</b>   | <b>4.07</b>    |
| 1. <i>At 120th Street</i>                       | <b>153,898</b>   | <b>3.53</b>    |
| 2. <i>At 121st Street</i>                       | <b>17,750</b>    | <b>.407</b>    |
| 3. <i>At 121st Street and Morningside Drive</i> | <b>17,575</b>    | <b>.403</b>    |
| 4. <i>At Speyer School</i>                      | <b>4,917</b>     | <b>.112</b>    |
| 5. <i>At Van Cortlandt Park</i>                 | <b>575,843</b>   | <b>13.22</b>   |
|   | <b>769,983</b>   | <b>17.672</b>  |
| <b>D. College of Pharmacy</b>                   | <b>7,516</b>     | <b>.172</b>    |
| <b><i>Grand Total in New York City</i></b>      | <b>2,250,862</b> | <b>51.667</b>  |
| <b>E. Camp Columbia, Morris, Conn.</b>          |                  | <b>585.3</b>   |
| <b><i>Total</i></b>                             |                  | <b>636.967</b> |



## TEACHING STAFF

| Teaching Staff  | Columbia University | Barnard College | Teachers College <sup>1</sup> | College of Pharmacy | Total <sup>2</sup> |              |
|---|---------------------|-----------------|-------------------------------|---------------------|--------------------|--------------|
|   |                     |                 |                               |                     | 1919               | 1920         |
| Professors  | 180                 | 19              | 24                            | 6                   | 175                | 180          |
| Associate Professors  | 70                  | 12              | 11                            | 4                   | 53                 | 70           |
| Assistant Professors  | 121                 | 12              | 33                            | 1                   | 113                | 121          |
| Clinical Professors   | 20                  | ..              | ..                            | ..                  | 20                 | 20           |
| Associates  | 67                  | 3               | 9                             | ..                  | 56                 | 76           |
| Instructors   | 250                 | 18              | 79                            | 6                   | 278                | 335          |
| Curators  | 3                   | ..              | ..                            | ..                  | 2                  | 3            |
| Lecturers   | 40                  | 10              | 32                            | ..                  | 70                 | 72           |
| Assistants  | 67                  | 9               | 38                            | ..                  | 92                 | 105          |
| Clinical Assistants   | 84                  | ..              | ..                            | ..                  | 94                 | 84           |
| Extension Teaching<br>not included above                              | 278                 | ..              | ..                            | ..                  | 127                | 278          |
| Summer Session<br>not included above                                  | 116                 | ..              | ..                            | ..                  | 119                | 116          |
| <i>Total</i>  | <i>1,296</i>        | <i>83</i>       | <i>226</i>                    | <i>17</i>           | <i>1,199</i>       | <i>1,460</i> |
| Administrative Offi-<br>cers not enumer-<br>ated above as<br>teachers | 39                  | 15              | 19                            | 3                   | 51                 | 57           |
| Emeritus and Retired<br>Officers                                      | 27                  | ..              | 2                             | 2                   | 28                 | 27           |
| <i>Total</i>  | <i>1,362</i>        | <i>98</i>       | <i>247</i>                    | <i>22</i>           | <i>1,278</i>       | <i>1,544</i> |

<sup>1</sup> Excluding the Horace Mann, Speyer and Lincoln Schools.<sup>2</sup> Excluding duplicates.

The total enrollment of students at the Winter, Spring, and Summer Sessions, as compared with that for the year 1918-1919, was as follows:

## STUDENT ENROLLMENT

|  |        | Totals | Gain   | Loss |
|--|--------|--------|--------|------|
| <b>A. Winter and Spring Sessions</b>   |        |        |        |      |
| <i>Undergraduate Students:</i>   |        |        |        |      |
| Columbia College   | 1,901  |        | 415    |      |
| Barnard College  | 755    |        | 40     |      |
| <i>Total Undergraduates</i>  |        | 2,656  |        |      |
| <i>Graduate and Professional Students:</i>   |        |        |        |      |
| Political Science, Philosophy and Pure Science   | 1,249  |        | 475    |      |
| Architecture   | 63     |        | 22     |      |
| Business   | 269    |        | 143    |      |
| Dentistry  | 4      |        | (new)  |      |
| Journalism   | 123    |        | 58     |      |
| Law  | 451    |        | 218    |      |
| Medicine   | 446    |        |        | 39   |
| Mines, Engineering and Chemistry   | 136    |        | 44     |      |
| Pharmacy   | 523    |        | 180    |      |
| Teachers College:  |        |        |        |      |
| Education  | 1,567  |        | 494    |      |
| Practical Arts   | 1,551  |        | 261    |      |
| Unclassified University Students   | 166    |        | 51     |      |
| <i>Total Graduate and Professional Students</i>  |        | 6,548  |        |      |
| <b>B. Summer Session (1919) including Undergraduate, Graduate, Professional, and Unclassified Students</b> |        | 9,539  | 3,517  |      |
| <b>C. Extension Teaching</b>   |        |        |        |      |
| Regular Courses  | 12,728 |        | 5,676  |      |
| Home Study Courses   | 145    |        | (new)  |      |
| Special Courses (brief courses bestowing no general University privileges and carrying no academic credit) | 1,080  |        |        | 223  |
| <i>Total Extension Teaching</i>  |        | 13,953 | 5,598  |      |
| <i>Grand Total (Gross) for 1919-1920</i>   |        | 32,696 | 11,481 |      |
| <i>Less Double Registration</i>  |        | 4,382  |        |      |
| <i>Grand Net Total receiving instruction from the University</i>   |        | 28,314 |        |      |

## DEGREES CONFERRED

During the academic year 1919-1920, 2108 degrees and 543 certificates and diplomas were conferred, as follows:

|   |     |   |              |
|---|-----|---|--------------|
| <b>COLUMBIA COLLEGE:</b>  |     | <b>SCHOOL OF BUSINESS:</b>  |              |
| Bachelor of Arts . . . . .  | 237 | Bachelor of Science . . . . .   | 45           |
| Bachelor of Science . . . . .   | 28  | Master of Science . . . . .   | 15           |
| Bachelor of Arts Certificate<br>for Academic Record and<br>National Service . . . . . | 17  |   | 60           |
|   | 282 | <b>EXTENSION TEACHING:</b>  |              |
| <b>BARNARD COLLEGE:</b>   |     | Certificate in Secretarial<br>Studies . . . . .                               | 12           |
| Bachelor of Arts . . . . .  | 139 | Certificate in Optometry . . . . .  | 19           |
| Bachelor of Science . . . . .   | 5   | Certificate in Architecture . . . . .   | 1            |
|   | 144 |   | 32           |
| <b>FACULTY OF LAW:</b>  |     | <b>COLLEGE OF PHARMACY:</b>   |              |
| Bachelor of Laws . . . . .  | 98  | Pharmaceutical Chemist . . . . .  | 15           |
| Master of Laws . . . . .  | 1   | Bachelor of Science . . . . .   | 2            |
|   | 99  |   | 17           |
| <b>FACULTY OF MEDICINE:</b>   |     | <b>FACULTIES OF POLITICAL SCI-<br/>ENCE, PHILOSOPHY AND<br/>PURE SCIENCE:</b> |              |
| Doctor of Medicine . . . . .  | 101 | Master of Arts . . . . .  | 403          |
| Bachelor of Science . . . . .   | 34  | Doctor of Philosophy . . . . .  | 69           |
|   | 135 |   | 472          |
| <b>FACULTY OF APPLIED SCIENCE:</b>  |     | <b>FACULTIES OF TEACHERS COLLEGE:</b>   |              |
| Engineer of Mines . . . . .   | 3   | Master of Arts . . . . .  | 423          |
| Metallurgical Engineer . . . . .  | 3   | Bachelor of Science . . . . .   | 399          |
| Civil Engineer . . . . .  | 8   | Master of Science . . . . .   | 6            |
| Electrical Engineer . . . . .   | 4   | Bachelor's Diploma . . . . .  | 236          |
| Mechanical Engineer . . . . .   | 7   | Master's Diploma . . . . .  | 240          |
| Chemical Engineer . . . . .   | 17  | Doctor's Diploma . . . . .  | 12           |
| Chemist . . . . .   | 0   |   | 1,316        |
| Master of Science . . . . .   | 4   |   |              |
|   | 46  |   |              |
| <b>SCHOOL OF ARCHITECTURE:</b>  |     | <i>Total Degrees Certificates and<br/>Diplomas granted . . . . .</i>          | <i>2,651</i> |
| Bachelor of Architecture . . . . .  | 6   | <i>Number of individuals re-<br/>ceiving them . . . . .</i>                   | <i>2,181</i> |
| Master of Science . . . . .   | 1   |   |              |
| Certificate of Proficiency in<br>Architecture . . . . .                               | 6   | <b>COLLEGE OF PHARMACY:</b>   |              |
|   | 13  | Graduate in Pharmacy . . . . .  | 131          |
| <b>SCHOOL OF JOURNALISM</b>   |     | <b>HONORARY DEGREES . . . . .</b>   | <b>7</b>     |
| Bachelor of Literature . . . . .  | 35  |   |              |
|   | 35  |   |              |

NICHOLAS MURRAY BUTLER

President

November 1, 1920

# COLUMBIA COLLEGE

## REPORT OF THE DEAN

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR:

As Dean of Columbia College, I have the honor to present the annual report for the academic year of 1919-1920.

In my last preceding report the four following important pieces of legislation were mentioned as having been passed by the Faculty of Columbia College during the year 1918-1919.

1. The prescription of the course in Contemporary Civilization for Freshmen.

2. The authorization of a New Plan of Admission to college in which the Mental Test was an important feature. Recent  
Legislation

3. The institution of an Assembly Hour.

4. The prescription of a second year of Physical Education for all college students.

All of these projects have now been in successful operation for a year.

The course in Contemporary Civilization has received the patient and enthusiastic attention of the unusually able body of teachers who have the course in charge, with the result that the unavoidable complexities of plan and difficulties of presentation have been reduced to their simplest terms. Contemporary  
Civilization Weekly meetings of the instructors have been held, and memoranda have been gathered during the year on the basis of which a revision of the Syllabus of the course has been prepared for use in September, 1920. A system of student representatives, one student elected

by each section, meeting with and reporting to their instructors on various aspects of the work, has aided materially in establishing and maintaining a splendid spirit of cooperation and mutual support on the part of all who are connected with the course.

The course has aroused a great deal of interest in other institutions, several of which have been assisted by a study of our Syllabus in making plans for a similar course which suits their local conditions.

Comments on the New Plan of Admission are found in the report of the Director of Admissions. Fortunately it is possible to determine with scientific accuracy whether or not the Mental Test is a useful addition to our academic machinery. If it turns out, during a series of years, that the correlation between the marks received on the Mental Test and the collegiate work of the students is distinctly higher than the correlation between the results of other types of entrance examinations and the college work, it would seem to be clear that the New Plan of Admission affords the best index that we have of the ability of a boy to carry college work. The correlation between the work of the entire Freshman year for the students who entered by the New Plan and their marks on the Mental Test is .65. The most reliable data available indicate that the highest correlation that can be expected between the work of the Freshman year and the results of the usual college entrance examinations is about .45. This latter figure has been obtained not only from a statistical study of our own Freshmen but from similar studies in another institution. Although it is too early to make a final statement regarding the matter, every indication points to the Mental Test as a most useful addition to our machinery of admission. It must be kept in mind that the group of students who are admitted to college under the New Plan are very carefully winnowed before they are authorized to take the Mental Test. The correlations obtained should, therefore, be interpreted as referring to the New Plan of Admission as a whole rather than to the Mental Test alone.

New Plan of  
Admission

In addition to the use of the results of the Mental Test in admission to college, they have been most helpful in my office as an aid in arriving at a diagnosis of academic maladies. A boy who has a poor academic record and a low Mental Test grade generally needs very different treatment from the student whose record is poor but whose Mental Test mark is high. And in several cases the Mental Test has afforded the clue which has enabled my office in cooperation with the University Physician so to advise the boy that he has not only escaped being dropped, but has become an excellent academic citizen.

The wise use of a new instrument like the Mental Test requires constant caution and scrupulous checking, but its apparent possibilities for usefulness are so fundamental and far reaching that a careful and scientific study of its significance is one of the important tasks of the next few years.

For several years the reports of various administrative officers have discussed methods of providing, systematically and adequately, for an increasing group of students of collegiate grade who are now either left to shift for themselves under rules formulated to meet conditions quite different from their own, or made the subject of special action. The Council has recently approved a plan to provide a status for undergraduate students in the University who are not registered in Columbia College. This plan is of great importance to Columbia College in that it provides a means by which a man may study for a baccalaureate degree in the University without registering in Columbia College or being under the jurisdiction of its faculty.

The dangers to the College attending such a project are obvious; but it is confidently believed they have been guarded against. Unless carefully administered, one of the two methods of obtaining the baccalaureate degree may become easier than the other, and either the College or the University Undergraduate plan might degenerate into a soft spot into which a man who could not maintain himself in the other group might fall. In a small institution this situation might be

inevitable but Columbia is so vast in its scope and in its appeal that there is more reason for affording two different types of education of collegiate grade, both of which are of the highest grade, inside our single University than can be found for two distinct colleges in many of our states. In fact, it is in the interest of maintaining some sort of homogeneity in the student body of Columbia College that the Committee on Instruction of the College has strongly favored the new project, in the belief that the institution of the University Undergraduates removes one of the most serious menaces to the solidarity of the College without injuring her either materially or in prestige.

The danger of introducing a school rival to the College in the University is also a serious consideration. This possibility is met by avoiding so far as practicable the development of any separate, corporate existence on the part of the group of University Undergraduates. They have no faculty but are administered by a committee, of which the Dean of the College is Chairman, which is responsible to the University Council. In this way, not only is a multiplication of administrative officers avoided, but also a rivalry of schools. For it is hard to see how the Dean of the College could be responsible for two schools, rivals to each other in any sense disadvantageous to either, without presenting in his own person the spectacle of a house divided against itself.

The plan for University Undergraduates solves one-half of the problem referred to in my last report under the caption of "The University and the College." The method of solution is slightly different from what was anticipated in its details but not in its main educational significance. The other half of the problem was concerned with the housing facilities for the college students. This question has rapidly become more insistent owing to the increasing number of students who have come to Columbia College from remote points. While the registration in the College for the year 1919-1920 has increased twenty-eight per cent. over that of 1918-1919, the number of students from outside Greater New York has increased

Geographical  
Distribution

seventy-three per cent. in the same time. Figures giving the percentages for certain recent years are as follows:

|           | Resident in<br>Greater<br>New York | Resident within<br>Commuting<br>Distance | Resident at<br>More Remote<br>Points |
|-----------|------------------------------------|--|--------------------------------------|
| 1905-1906 | 72                                 | 8  | 20                                   |
| 1909-1910 | 68                                 | 10                                       | 22                                   |
| 1914-1915 | 66                                 | 12                                       | 22                                   |
| 1918-1919 | 68                                 | 5  | 27                                   |
| 1919-1920 | 58                                 | 10                                       | 32                                   |

It is impossible to predict whether this trend will continue, especially in view of the great expense of travel, but there is some reason to believe that the registration in Columbia College can be maintained at about an even division between students from New York City and those from out of town. If this can be done it will, in my opinion, result to the greatest advantage not only to the city boys, who would meet as classmates students from all over the world, but to those who come from afar as well, in acquainting them with the nation's metropolis, through the medium of things intellectual. Our obligation to the community is also fulfilled more intelligently and completely by a cosmopolitan student body than would be possible by a purely local institution.

Clearly, it will be out of the question to take care of an increasing number of out-of-town registrants unless adequate facilities for housing and boarding are provided.

During the past year the Trustees designated Hartley and Furnald Halls for the exclusive use of students of Columbia College. Owing to the stringency of the housing situation for women, it has been deemed advisable to withhold the use of Furnald from men for a year or two longer, and to house the College in Hartley and Livingston for the present. A Committee on the Administration of Hartley and Livingston Halls has been appointed and has arranged for the gradual taking over of these dormitories by the College students as fast as the tenure of students in other schools of the University is terminated by their receiving their degrees, or by their withdrawal from the University. This will take

Dormitory  
Facilities



at most two years. These dormitories will be adequate for the College if it does not further increase in size. The possibility of further numerical expansion depends upon the provision of further space not only for housing but for eating, recitations and lectures, library purposes, gymnasium, and last but not least for the various student activities.

The foregoing portions of this report are concerned with college policies which have been under consideration for some time and which have culminated during the past year. Certain other questions which have appeared during the course of the year and have reached solution ought to receive mention here.

Of these the most important is the reorganization of the Honors Courses. Since their initiation in 1910, these courses have been performing an admirable service to scholarship in affording the student of unusual ability a more flexible plan of study than that followed by the rest of the undergraduates. The plan has worked much better in some departments than in others, due in part to differences in subject matter, and in part to the greater interest taken in the honors students by members of the teaching staff in certain departments. But on the whole the system had tended to run down, particularly in the last two or three years, and the time was clearly ripe for a complete overhauling of our entire policy of caring for the ablest scholars among our students. As the result of a careful study of the problem, a plan has been devised providing that all the candidates for a degree with General Honors (except those who expect to exercise professional option) shall pursue a course of reading from a list of the world's great books and shall meet one evening each week in conference with members of the teaching staff for the discussion of them. In addition to this reading each student is required to select a subject of major interest which may cut across departmental lines, which he shall pursue under the direction of a member of the teaching staff especially interested in that field, and, if possible, in the particular student. It is hoped and expected that this project will interest a small but very alert and choice

group of undergraduates who may, as time continues, serve as a center of enthusiasm for things scholarly in a manner helpful alike to them, to their instructors and to the College.

During the past year the undergraduates, under the stimulus of the Student Board, have discussed with great vigor the desirability of recommending to the faculty the organization of the so-called Honor System of conducting examinations. The

Honor System in  
Examinations

question at issue really came down to a discussion as to whether the students were willing to undertake the responsibility of seeing that dishonesty was reported to the proper student committee for recommendation to the Dean for discipline. No one believed that all dishonesty would be eliminated by the passage of a few resolutions modifying the method of taking examinations. But if the rules were so changed that the faculty could not observe such dishonesty as took place, and if the students declined to take any responsibility in the matter, evidently an impossible situation would be created. It was the world-old situation of a demand for "liberty" without the willingness to accept the moral responsibilities that accompany it. Finally, in a student referendum, it was wisely decided that it would be inadvisable to inaugurate the system at the present time and the question will probably rest for another college generation.

It is one of the unfortunate results of the independent foundation and support of our privately endowed American Universities that each, regardless of its situation and its resources, is constantly tempted to give instruction covering the whole domain of human knowledge. It is often difficult for an institution to realize that a narrow service well performed is a much sounder basis for a good reputation than a more diffuse but less finished educational output. But it requires only slight reflection to assure one that an interest in the welfare of our students, and the progress of education, as well as the most genuine loyalty to our individual institution combine to give inter-collegiate cooperation and collaboration a recognized place in academic policy.

Inter-collegiate  
Cooperation

For reasons, some of which are obvious, there seems to be no occasion to develop at Columbia a school of Agriculture or to attempt to give more than secondary attention to work in that field. At the same time there is a considerable sprinkling of students in Columbia College who look forward to the pursuit of Agriculture as a profession. Arrangements have therefore been completed with Rutgers College and the New Jersey State College of Agriculture, where an excellent course in Agriculture is in operation, whereby a combined course in Agriculture is offered, the first two years of which will be given in Columbia College, followed by the distinctly professional years and the conferring of the degree at New Brunswick. Since the work of the first two years is almost entirely concerned either with general courses or basic sciences, we are already equipped to provide all of the instruction needed. It is merely necessary to authorize the students to carry the schedule which the Combined Course calls for. But in principle it is a matter of importance that two institutions unite in such a plan which can be published under their joint authorization. The students now enrolled in Columbia College for whom this project is of immediate concern are mostly New York City boys who wish to pursue their studies either while living at home or with as little travelling as possible.

Among the undergraduates a splendid spirit of interest in the College and loyalty to it seems to be awakening. There is, however, no immediate danger that Columbia College will degenerate into a typical "rah-rah" student body. The intellectual stimulus on the student both from within and from without is too strong for such a tendency to find much encouragement. Owing to the large number of pre-professional students in Columbia College a seriousness comparable with that found in the professional schools is the rule rather than the exception. My office finds many more cases of students who are over ambitious and attempting to carry too heavy an academic load than of boys whose ambition is to avoid work. It is an interesting

College  
Spirit

fact that the few students who are lazy and unresponsive to their intellectual opportunities are, as a general thing, without ambition to achieve distinction in undergraduate affairs. As a consequence, although it will be necessary to observe and advise students who throw themselves into athletics with too complete abandon, there seems to be no reason to fear that the removal of the ban from football and the general increase in interest in athletics will upset the College.

One of the effects of the exorbitant rental for apartments in the vicinity of the University has been the removal from the city of a considerable number of the teaching staff. They have found that the only way to solve their domestic problems has been to secure a home in several cases from twenty-five to forty miles from Hamilton Hall. Under present circumstances there can be no just criticism of such a procedure. This does not, however, alter the fact that Columbia College is bound to suffer grievously if the tendency becomes more prevalent. The graduate or professional school professor in some fields of study may so arrange his work as to come to the University only on those days when his lectures are concentrated, without seriously injuring his effectiveness. This is impossible in the case of the college professor. If removal from the city is consciously regarded by the member of the staff as a regrettable necessity and if he plans his work so as to improve all of his opportunities for service to his students and to his own scholarly development, he may reduce the disadvantages to a minimum. The chances are, however, that the division of his attention, the loss of time spent in commuting, the difficulty in being present at conferences which may be held at odd times, all taken together will in time result in his losing intimate touch with the institution, and a gradual withdrawal into the company of those who are dependent on the College for existence rather than contributing to its life. The steps which have already been taken to secure apartment houses for members of the faculty are of the utmost importance to the entire University but particularly to the College. It is even more desirable that one or more houses in which the rental is adapted to the

income of junior officers should be secured. It would indeed be tragic if the benefits to the College incident upon the more general residence of the students at the University should be neutralized by the withdrawal of the teaching staff to the country.

The relation of Columbia College to the various professional schools of the University is one of mutual advantage and satisfaction, and presents no problems that cannot be worked out in the course of a little time.

The School of Business has developed so rapidly that it has been necessary to act upon many requests from students for special action in order gradually to arrive at a reasonable order of procedure. Many students have wished to take courses in the School of Business as a part of their work for the A.B. degree. Ever since the organization of that school, a maximum of two full year Business courses has been credited toward the College degree. There was, of course, nothing sacred about the number two in this connection; in fact, it turned out that the rule was impossible to administer, for any student who obtained ninety-four points and had satisfied all of the requirements for the A.B. degree was allowed to take all of his work in the School of Business in the regular exercise of professional option with that school. Since he is awarded his degree from Columbia College on the satisfactory completion of one year's work in the School of Business, and since the College manifestly has no jurisdiction over what he does after receiving his degree, a student who decides not to return to the University after his first year in the School of Business has virtually taken his entire Senior year in Business courses instead of being limited to the two specified in the rule referred to. This curious situation necessitated the modification of the two-course rule, and in view of the nature of the Business courses, it seemed wise to allow Seniors in College to elect courses in the School of Business which they are qualified to take, up to a maximum of thirty points. This allows the College students ample opportunity to avail themselves of the training that the Business courses have to offer without with-

The College  
and the School  
of Business

special action in order gradually to arrive at a reasonable order of procedure. Many students have wished to take courses in the School of Business as a part of their work for the A.B.

drawing their registration or their allegiance from the College. The corresponding situation has not arisen with respect to the other professional schools.

Owing to the receipt of about six hundred applications for admission to the Freshman class of the College of Physicians and Surgeons, over one hundred of which come from students of Columbia College, a very difficult situation has arisen. The Medical School can accept only about one hundred first-year students. As a consequence, a careful selection of candidates was necessary. The fact that a student has taken his pre-medical work in Columbia College ought to give him preference over students of equal attainments and promise who have done their preliminary work elsewhere. At the same time no one would maintain that the entire list of applicants from Columbia College should be accepted before any others are considered. To strike a just balance between these extremes, which shall result to the advantage of the Medical School in giving her the best students available, and to that of the College in stimulating her students to their best endeavor, but without imposing an unreasonable handicap upon them, is the problem.

The College  
and the  
Medical School

The question has received most careful consideration during this year in conferences between officers from the College and from the Medical School. As a result about half of the applicants from Columbia College were admitted to the Medical School as against less than twenty per cent. of all applicants. Thus about half of the Freshman class at the Medical School are Columbia College products. Of these nearly half took the three-year pre-medical course in the College and are exercising professional option. The balance took only two years in Columbia College, and will receive the degree of B.S. from the Medical School at the end of two successful years of study there.

So far as our experience goes it appears that a man who pursues the three years' course in the College without serious failures at any time ought to be practically certain to gain admission to the Medical School. A reasonable number of

men who have done distinguished work in the two-year pre-medical course and who give promise of success as physicians ought also to be admitted. But the competition among the two-year men will necessarily be very keen if the present demand for admission to the Medical School continues.

The situation outlined above raises the question as to whether it would be wise to authorize the exercise of professional option between Columbia College and Schools of Medicine other than our own. From the point of view of the student, and his intellectual training, as well as that of a broad policy of educational cooperation, it is hard to see any valid argument against such an arrangement with first-class Medical Schools. One may or may not favor the fundamental idea of professional option, but if one accepts that principle, it is difficult to see any reason, except an obligation to provide students for one's own Medical School, for not allowing the student to take up his medical education at another university and to receive his A.B. degree from Columbia College.

The extension of the plan of professional option as suggested above should be sharply distinguished from a proposal to award the Columbia degree to students who attend Columbia College for two or three years and then continue their collegiate work elsewhere. The practice is universal that a student receive his collegiate degree from the institution in which he completes his requirements for that degree. Any other procedure would result in endless confusion and the likelihood that the student with an abnormal appetite for degrees might receive more than one for the same accomplishment.

The important work before the College for the next year or two is undoubtedly that of consolidation of gains and observation of plans recently put in operation. The new projects which have been authorized during the past two years are numerous and fundamental. They affect vitally the kind of education that Columbia College is offering to her rapidly expanding student body. The Freshman may be admitted by the New Plan of Admissions which involves the Mental Test. The results of

Extension of  
Professional  
Option

Necessity for  
Observation

this New Plan must be scrutinized with the greatest care, and its effect on the type of our students, as well as the correlations between the results of the Mental Test and the college work of the boy must be studied statistically by wise statisticians. His course in the Freshman year includes Contemporary Civilization. This course must serve as the adequate and worthy vestibule from which he is introduced to the more detailed study of Economics, Government, History, Philosophy and allied subjects. To study the relation of the various courses in these fields to the course in Contemporary Civilization and to establish such coordinations as may yield a progressive and intelligent educational result, is a problem that will require painstaking and patient attention. The same student may in his second year take up the Honors work, the revised plan for which will require constant supervision and study on the part of a considerable number of men on the teaching staff.

To carry these and the other projects recently adopted through the experimental stage, and to convert them into strong and vigorous members of our academic organism, is no small task. The task would indeed be a hopeless one without the continuous and enthusiastic effort of the members of the staff to whose progressiveness and helpful advice the initiation of these plans is due.

Other problems which must be given attention during the coming year are an examination of the system of advisers of students, which with the rapid growth of the College has shown signs of considerable strain; a careful study of the most effective means of awarding financial assistance to students; and a continued watchfulness lest some department or some feature of our material equipment become inadequate for the satisfactory service to our increasing body of students.

Respectfully submitted,

HERBERT E. HAWKES,

*Dean*

*June 30, 1920*



# SCHOOL OF LAW

## REPORT OF THE DEAN

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR:

I have the honor to present the annual report for the School of Law for the academic year 1919-20. The registration of the School was as follows:

### Registration

|  |       |
|--|-------|
| Candidates for the degree of LL.M. . . . . | 3     |
| Third Year, Class of 1920 . . . . .        | 85    |
| Second Year, Class of 1921 . . . . .       | 96    |
| First Year, Class of 1922 . . . . .        | 291   |
| Non-Matriculated Students . . . . .        | 48    |
|  | <hr/> |
| <i>Total</i> . . . . .                     | 523   |
| Summer Session . . . . .                   | 129   |
|  | <hr/> |
|  | 652   |
| Less Duplicates . . . . .                  | 109   |
|  | <hr/> |
| <i>Net Total</i> . . . . .                 | 543   |

The degree of Bachelor of Laws was awarded during the year to ninety-nine candidates.

The backing up of the regular flow of students to the School, caused by the war, has resulted in striking inequalities of registration exhibited by a third-year class numbering only 85 and a first-year class numbering 291. This unequal distribution of students, as well as the large number of registrations of students for subjects partly in one class and partly in another, occasioned by the interruption of their course by war service, has presented many perplexing administrative problems. In

arranging our work during the past year it has been our aim so to organize our courses and arrange the schedule of lectures as to afford every student in the School an opportunity to take up his work practically at the point where he dropped it on entering the national service, without conflicts or unnecessary delays. This program was greatly facilitated by the "shuttle course" offered in the academic year 1918-19 following the armistice and by the flexibility ensured by our two-semester academic year in conjunction with the Summer Session. Students who returned from service too late to begin work in the Winter Session found a free selection of courses beginning with the Spring Session and will be able to continue their studies in courses specially chosen with reference to their needs and offered in the Summer Session of 1920. In order to carry out this program it has been found advisable to increase substantially the number of courses offered in the Summer Session in 1920, and courses will be provided in Admiralty, Bills and Notes, Code Pleading and Practice, Constitutional Law, Criminal Law, Equity I, Evidence, Partnership, Personal Property I, Property II, Property III, Public Utilities, and Sales.

The steady increase in attendance at the Summer Session in law indicates the desirability of some general advice to students as to how they may best make use of the Summer Session courses in law, in connection with the work in the regular Winter and Spring Sessions. A student may either begin his law study in the Summer Session, or a qualified member of the second- or third-year class may supplement or anticipate the work of those years by pursuing in summer the courses which are offered as a part of the curriculum for either of those years. Experience has demonstrated, however, that law study can be most advantageously pursued in Summer Session after the student has completed the first year of law study as it is offered in the regular Winter and Spring Sessions. It is especially important that the beginning law student should make his approach to introductory law study in the manner best calculated to give him a grasp of legal fundamentals. Oppor-

The Summer  
Session

tunity for this is afforded not only by an arrangement of courses in proper sequence but by paralleling those courses which most satisfactorily supplement each other in giving the student the essential foundation on which to build his law course in the second and third years. For this reason the student is urged to begin his law study in the regular Winter Session by studying Contracts, Torts, Criminal Law and Personal Property, the course in Personal Property serving as an introductory course in law in which the student is required to work out from cases and assigned reading the more elementary legal concepts which are fundamental and which he is constantly required to use in other law courses. The course in Criminal Law makes him acquainted with the underlying principles of public law and in it he develops from a somewhat different viewpoint the notions of title, possession, intention, and consent with which he is constantly dealing in other courses.

By the beginning of the Spring Session he is prepared to take up the courses in Real Property (including uses) and Common Law Pleading which parallel the courses in Torts and Contracts which are continued in the Spring Session, the Pleading being studied not only as the best exposition of the art of framing issues of law and fact in litigation but as the medium through which our substantive law developed and from which it takes its form. The courses in the second and third years are similarly arranged with reference to their proper sequence and so that they may be mutually complementary. In these years, however, owing to the student's greater experience and his familiarity with legal fundamentals there is larger opportunity for variation of the established scheme of study. Departure from this scheme by pursuing courses in the Summer Session can ordinarily be made for the purpose either of taking courses which may not be taken in the Winter or Spring Sessions because of the richness of our curriculum or to shorten the total period of law study. Either of these purposes may usually be accomplished to the permissible limit by attending two Summer Sessions after the completion of the first year course in its entirety, preferably

the Summer Sessions which follow the first and second years of the course.

The intense desire of the average law student to shorten his period of law study is often based on a false estimate of the relative value of the several elements entering into an adequate preparation for the bar. Preparation for the bar comprises two distinct processes. There is first the mastery of the principles of the common law and equity systems which can be acquired only by diligent study, preferably under competent guidance, of printed books, principally the reports of judicial decisions; and second, there is the practical experience by which the student becomes familiar with the course of procedure in the law office and in the courts and public offices; the machinery, in short, by which the lawyer applies those principles to cases actually arising in his professional practice. The first of these processes can best be carried on in law school; the second can be carried on only to a limited degree in law school and must sooner or later be pursued in the law office where training in practice is the normal, indeed the inevitable, experience of the practicing lawyer.

Relation of  
Office Practice  
to the Law Course

Law School affords the golden opportunity for the study of legal principles. The practitioner will continue to study his books during his entire professional career if he is loyal to his profession, but his study in the natural course of events will never be systematic or impartial as it is in law school and it will follow no particular order or sequence and it will be without the stimulation of systematic guidance and of law school associations. The student, therefore, who would cut down the period of systematic law study below the minimum of three years required for admission to the bar in order to hasten the beginning of office practice in which as a lawyer he will spend his entire professional life, practices a false economy of effort and reveals his failure to appraise at its true worth the opportunity which the law school presents.

The rapid increase in the subject matter of law study, on which I have often had occasion to comment in these reports,

makes attendance on Summer Session almost essential for the student who would cover adequately the more important subjects of the law school curriculum without prolonging his law course beyond the customary three years and this is the use which should normally be made of the Summer Session rather than as a means to hasten the completion of his period of systematic law study.

The student who wishes to hasten his preparation for the bar rather than the completion of his law school course will do well to employ a portion of the long summer vacations in pursuing a clerkship in a law office, returning in the fall to uninterrupted study in the law school. Having in mind the desirability of pursuing his law study in orderly sequence, he will have made considerable more progress toward professional competency than the man who shortens his law course by attending Summer Session and is thus able to conclude his law school work and begin practice a half-year earlier than would otherwise be the case.

It is perhaps no longer necessary to emphasize the importance of the student's giving his entire attention to law study during term time. The law course in a first-class modern law school requires the student's full time and energy. Time devoted to the preparation for lectures and employed in intelligently directed research in the law library will lay a better foundation for professional success than is possible if law study is interrupted in order to spend a few hours each day in office practice. In nearly every instance it was found that the fifteen men who failed to receive their degrees during the academic year just closing failed because they were unwilling or unable to devote their full time to law study. The student who cuts down his law school study in term time in order to engage in office practice will never be quite able to repair the sacrifice which he has made in order to anticipate by a few months the experience in practice which will be the principal occupation of his professional life.

Perhaps the most serious drawback to progress in legal education at the present time is the apathy of the bar as a whole and of bar organizations in particular, toward all

constructive projects for improving legal education and raising standards of admission to the bar. No bar association has in recent years taken any positive step in the direction of improvement in either of these respects. The American Bar Association in 1917 created a Council on Legal Education, and authorized it to study and classify the law schools of the country, but this Council was rendered powerless to perform this service through the failure of the Executive Committee of the Association to appropriate any fund for meeting its necessary expenses and at the annual meeting of the Association in 1919 the Association adopted a constitution abolishing the Council. Although the Association has maintained a section on legal education for many years, yet the section has not in twenty years proposed any program for the improvement of legal education which has met with the approval or endorsement of the American Bar Association. Indeed, its one constructive recommendation of uniform rules for admission to the bar, after being extensively modified by the Committee on Education of the Association, was referred by the Committee to the Council on Legal Education, which has since been abolished by the Association.

Problems of  
Legal  
Education

In short, the American bar has been content to leave the problems of legal education and the improvement of the bar through the improvement of legal education and better methods of bar examination to the ministrations of the 125 or more law schools of the country, good, bad, and indifferent, without the active interest and cooperation which ought to exist between an organized profession and the educational institutions which train its membership. A not unnatural result has been the steady growth in number of those who apply for admission to the bar with a wholly inadequate education, both general and professional.

The activity of the American Medical Association in studying medical education and investigating the medical schools of the country presents a striking and discomfiting contrast. Following the organization of the Council on Medical Education of the American Medical Association and the publication

of the results of its study of the American medical schools, between 1909 and 1915 the percentage of attendance at high standard medical schools increased from 6.3 to 80 per cent, while in the corresponding period the percentage of attendance at high standard law schools has fallen from 50 to 41 per cent.<sup>1</sup>

The purpose of these comments is to call attention to a condition which seriously threatens the future usefulness and influence of the bar rather than to assign the blame or the responsibility for it. The law schools which have real educational aspirations and which feel a sense of obligation to the profession must no doubt accept their share of the responsibility, but wherever the responsibility lies, the future of the bar as an institution having public duties and responsibilities is not bright unless it can be brought into closer touch with its educational problems and made to feel a larger sense of responsibility for their adequate solution.

Very generally both the bar and the professional schools have underestimated the importance of the liberal college education as a preliminary to law study. In the development of legal education we have not taken into account sufficiently the fact that legal training becomes more effective when it is founded on adequate liberal education and that there are infinitely greater possibilities of improving legal education and raising the quality of the bar through insisting on thorough college training as a preliminary to law study than by the elaboration and refinement and the extension of law school curricula. Not only does liberal education contribute to the intellectual fitness of the lawyer, but it brings to him a sense of proportion and an appreciation of essential values which equip him to bear the moral responsibilities of his profession. The superiority of the English bar as a whole over our own, despite its inferior legal education, is due in large measure, I believe, to the fact that most of its members are educated at the universities and they come to their profession with an intellectual equipment and a moral and educational

<sup>1</sup>This subject was discussed more at length by me in an address as President of the Association of American Law Schools at the meeting of the Association in Chicago in December, 1919.

background wholly lacking to the great number of youths who in this country are annually admitted to the bar two or three years after they have completed a meager high school education.

Not only should the desirability of liberal education for the prospective lawyer be emphasized by bar organizations but the leaders in the field of liberal education would render a distinct service by informing the general public and especially those who intend to enter the profession of the necessity of sound liberal training to qualify one to assume the duties and responsibilities of the lawyer.

The report of the Law Librarian states in interesting detail the substantial progress which has been made in the development of the law library during the year. This Law Library progress is indicated not alone by the addition to our collection of the volumes which he reports. The thorough-going study of our library carried on for the past two years by our library committee, consisting of three members of the Faculty of Law and the Law Librarian, has resulted in a report which not only tells of progress made but outlines a policy for strengthening the library and increasing its usefulness which should be productive of good results for a long period in the future. The approval of this report by the Trustees has settled one most important point of policy and that is that the law library is to be developed as a research library for scholars in law as well as a working library for law students. The proper development of the library for this purpose requires increased annual expenditures to meet the expenses of serial additions, and binding books for current use, and in order to expand our collection in various fields so that it may be adequate as a research library. In addition to this systematic building up of the library by regular appropriations, there are special developments to be made as gifts, or special funds, may become available for that purpose. Among these especially deserving consideration is the adequate binding and shelving of the law library of Chancellor Kent and the law library of John Jay, which are among our library treasures.



The increased interest in the law of the South American countries growing out of the expansion of commerce with those countries has led to the establishment in Extension Teaching of courses in Spanish American Law. The next few years will undoubtedly witness a substantial increase in interest in this branch of law and we should begin at once to build up our collection of Spanish American codes and commentaries. A study of this problem by our library committee indicates that the sum of ten thousand dollars judiciously expended in adding to our collection of Spanish American law books would enable the library to render adequate service in this field for some years to come. Other special developments of the library to be made as opportunity is presented are the filling of gaps in early American material, especially statutes, the completion of our collection of British Colonial Reports, and the suitable housing of the International Law collection, reference to which was made in my last annual report.

The study of our library in connection with problems of legal research brings one to a realizing sense of the physical and mechanical difficulties in conducting legal research, which are not adequately understood outside the legal profession. There is probably no intellectual science in which the amount of printed material for study and investigation is so great. The multiplication of statutes and reports of judicial opinions constitutes one of the serious problems to be solved in the scientific development of our legal system. The mere keeping abreast of the current decisions of the English Courts and of those of the 48 states of the United States and the Federal Courts is a work of magnitude. An investigation of any legal doctrine involves the critical examination of an enormous number of authorities, many of them only to be discarded as throwing no light on the subject of investigation.

The preparation of a 20 page article recently published by one of our professors in the Columbia Law Review involved the reading of 160 judicial opinions which were cited in foot

notes as establishing the various propositions on which the conclusions of the author were based. Probably at least an equal number were read and rejected. The law professor who keeps up with the current developments of his subject, who prepares and conducts his regular lectures each week, and keeps office hours for consultation with students, finds too little time remaining to meet the constantly increasing requirements of legal research and publication. Occasional articles in the legal periodicals dealing with some special and limited phase of subjects in which he is interested are all that can be reasonably expected of him in addition to the adequate performance of his usual professorial duties.

Much of this laborious procedure in legal research cannot be delegated to others but the preliminary search for authority and much of the gathering of material which research in law involves could be turned over to a competent junior or to a capable third year or graduate student who has had experience in research work such as is regularly carried on by the editors of the Columbia Law Review. A great step toward the promotion of legal research in this country will be taken when the necessary financial provision is made for giving to law teachers who are able to propose a definite program for legal research, some adequate assistance in gathering material and making a preliminary investigation of it.

It is interesting to note that one fund has been established independently of University control, a portion of which may be used for the promotion of legal research in the manner here suggested. Much may be accomplished in this direction by modest appropriations of University funds for this purpose or by the creation of research fellowships which may be awarded to assistants competent to aid in carrying on special investigations. Indeed the establishment of research fellowships is an essential part of the development of any program for conducting research courses in law, such as should be maintained by our University, the general character of which was suggested in my last Annual Report.

In connection with this subject it would seem that the time has now come when this University should establish a

suitable degree to be awarded for the successful completion of a graduate course in Law in which especial emphasis should be placed on research. The highest degree in law now awarded by the University is the degree of Master of Laws, a degree which is obviously inappropriate as indicating the successful completion of research courses in law. This subject was under discussion in 1911 but resulted in no action because of doubts on the part of the Trustees as to the appropriateness of the award of a doctorate in law. The degree of Doctor of Law (Juris Doctor) is now awarded by the leading university law schools of this country and this may now be regarded as the established practice of American universities. Its award for advanced study in law is in conformity with the practice of the universities of the European Continent.

It is believed that the degree of Doctor of Law (Juris Doctor) is an appropriate one to be conferred upon students who, after completion of a course in law in approved law schools leading to the degree of Bachelor of Laws, have successfully carried on special studies while in residence at the University, in the course of which they have given substantial evidence of originality and distinguished capacity. When the proposal was made in 1911, it was the opinion of the Faculty of Law and the University Council which concurred in making it that the establishment of such a degree at Columbia would stimulate research in law and give to it proper recognition. The course of events since that time and especially the growth and development of the School of Law have served only to confirm and strengthen that opinion and to encourage a renewal of the proposal.

No single factor will have a greater effect on the future influence and usefulness of the Law School than the adequate housing of its students. One of the agreeable changes which followed the war was a very substantial increase in the percentage of our students coming from points distant from New York City. More than one-half of our students during the year just closed registered from homes outside the New York

Dormitories  
for Law Students

metropolitan district. One hundred and one colleges and universities were represented by their graduates in our student body. It is highly important that a professional school, training lawyers for practice at the bar as Columbia Law School is doing, should make its influence felt throughout the entire country. Its aim is not only to aid the individual by making him proficient in his profession but to raise the tone and standards of the bar so far as it may do so by the influence of its teaching. It fails in this important function just as it becomes local in its patronage and consequently in its influence.

To ensure to this School a steady flow of students who would normally be attracted to it from points outside the city we must provide suitable housing accommodations for them during their entire period of residence. The housing shortage which has prevailed in New York makes it plain that we shall not be able to provide for such students unless the University speedily acquires or builds dormitories for the accommodation of our graduate students. While such provisions are a necessity if our School is to continue to be national in character, the bringing of all our students together under common living conditions in association with graduate students of other departments of the University has a distinct educational advantage which alone would be sufficient to justify the effort and expenditure required to secure adequate dormitory accommodations for them.

In the President's Annual Report for 1919 he called attention to the need of a new building for the accommodation of Philosophy, Political Science and Pure Science. The erection of such a building, which may be expected when building costs are reduced, will relieve the pressure on Kent Hall and afford opportunity to adapt it more completely to the needs of the Law School. Owing to the increased size of our classes there is pressing demand for one additional large lecture room, and this as well as the other large lecture rooms in Kent Hall should be equipped with seats arranged in an amphitheater on an inclined plane so that the instructor may be more easily

Needed Changes  
in Kent Hall

heard in all parts of the lecture room than is now possible in the large lecture rooms.

The location of the professors' studies at a distance from the law library increases enormously the difficulties of using the law books and of conducting research. It is almost essential for the proper performance of the daily work of the law professor that he should have easy access to the books. The difficulty of securing adequate library service in the past year has emphasized this defect in the arrangement of Kent Hall and made imperative its correction at the first opportunity. The problem is one for study by the University architects but it is probable that the simplest solution is the establishment, quite possibly in connection with a room for the International Law Collection, of a room near the professors' studies for the delivery of books connected by a book lift directly with the Law Library stacks. If in conjunction with such an arrangement duplicates of the more important and frequently used sets of reports and statutes could be placed on the same floor as the delivery room, the library could be made more available to instructors and the work of research greatly facilitated.

In my report of last year I called attention to impending financial difficulties of the Columbia Law Review, owing to the steadily rising costs of publication.

Columbia  
Law Review

The danger I then anticipated has been realized. The cost of printing the Review has outstripped its income from subscriptions and advertising. For the first time in its life of twenty years it has definitely ceased to be self-supporting, and unless it secures financial aid its publication will have to be discontinued during the coming academic year. This is a condition which confronts other law reviews and scientific journals of an educational character. I need not here repeat what I have so often said in these reports of the scientific quality and value of the Review or of the part which it plays in our educational program. It would be difficult to imagine anything more injurious to the prestige and influence of our School or to its educational work than the discontinuance of the Review.

Only one answer can be given by the University itself and by our alumni to the question whether a legal journal of the established quality and reputation of the Review published by our students and made up very largely by their contribution shall be allowed to cease publication for want of financial support.

The year just ended has been one of substantial progress. The disorganization and the loss of individual initiative and the tendency to accept a doctrine as valid merely because it is authoritatively announced, which seem to have been the educational and intellectual heritage of the war, have been steadily overcome and we may now look forward to a year of normal intellectual effort in which the increased faith in the value of intellectual training, which is one of the blessings of the war, can be turned to good account. Keeping steadily in mind that the aim and indeed the very justification of our existence is the training of lawyers and the improvement of the bar by making better lawyers, we must nevertheless give emphasis to the fact that we shall best perform that service not only by stimulating and strengthening the intellectual power of the individual student but by contributing to the knowledge and development of legal science.

Respectfully submitted,

HARLAN F. STONE,

*Dean*

*June 30, 1920*

# COLLEGE OF PHYSICIANS AND SURGEONS

## REPORT OF THE DEAN

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR:

I have the honor to submit the following report of the work at the College of Physicians and Surgeons for the year ending June 30, 1920.

The first year of the new administration was spent largely in a study of the existing problems and the formation of plans to meet them. In addition to bi-monthly meetings of the Committee on Administration, the questions have been discussed with many of the University authorities and with men interested and qualified in medical education throughout the country and their advice earnestly sought. Several of the more advanced medical centers have also been visited. One of the main requirements for the fulfillment of these plans is a decided increase in the funds available for the School of Medicine. Whether this increase in our funds will be forthcoming or not will decide on the extent to which our hopes may be realized. The details are contained in the memorandum submitted to you in November, 1919.

The most immediate problem presented was the limitation of the number of students to be admitted. Owing to a distinct limitation of laboratory space, and more  
Numbers especially of clinical material under the direct professional control of the school, it was found necessary to admit to the entering class only a number which it seemed possible to carry through to graduation without crowding. From over three hundred applications a hundred were selected. This limitation was justified by the quality of the work during the year, which was of a distinctly higher average than in

previous years. At the end of the current year over five hundred applications had been received for the year 1920-1921.

The critical situation which the school faced owing to the impending severance of relations with the Presbyterian Hospital has been tided over and the affiliation has been continued, so that we again have the splendid opportunities of that institution available for teaching purposes. Hospital

As has been so frequently emphasized by Dean Lambert, the most essential need for the future growth of the school is the erection of a new building in close geographical as well as functional relationship to a university hospital. Until this keystone is assured, the other developments cannot be carried forward. Several of the departments are being conducted with temporary administrative arrangements awaiting the realization of our plans. It is due to the unselfish cooperation of the men on these committees that the teaching in these departments has been so successful.

The addition to the Dean's office of a full-time Associate Dean, with a generous increase in the clerical force, has made it possible to attend more efficiently to many of the details of the general administration, and to obtain better interdepartmental coordination. Administrative  
Changes

Mr. Grimshaw, who had been Superintendent of the Vanderbilt Clinic since its foundation in 1887, was compelled to resign because of ill health. By combining this position with that of representative of the Department of Buildings and Grounds it has been possible to avoid many of the delays necessary when this work was done by the general university officers in this position. Mr. Frederick Miller has proved to be a very valuable member of the staff.

During the year Professor Frederic S. Lee, who has been the Dalton Professor of Physiology since 1901, resigned as executive officer of the department and was made Research Professor. His position has not been filled and the department is to be conducted by an Administrative Board made up of Associate Professors Changes in  
Personnel



Burton-Opitz and Pike and Assistant Professors Williams and Scott. The school is to be congratulated on being able to have the continued services and assistance of Professor Lee. Dr. Wilbur Ward has resigned his position as Associate Professor of Obstetrics and Gynecology. Dr. Linnaeus E. LaFetra, who has been in charge of the Pediatric Service at Bellevue Hospital for many years, has resigned to take a more responsible position in the New York Postgraduate School. Dr. Herman O. Mosenthal has also resigned from the Department of the Practice of Medicine to accept a position in the same school. Their loss is deeply regretted.

The Class Faculties have been further developed and have kept in more intimate contact with the work of the individual students. By assigning one preceptor to each ten students it has been possible to establish closer relations between the students and the teaching staff. I wish especially to mention the work of the Third Year Faculty in coordinating and systematizing the teaching of this year.

When the five-year schedule was adopted in 1917 it was believed that sufficient clinical facilities would be available to accommodate as internes all those who entered that year. It was realized this year that such would not be the case, and it was decided, therefore, to postpone this change until some future date. This has necessitated several modifications in the curriculum in order to revert to the former four-year course.

The largest part of the clinical teaching of the student of medicine is carried out by the departments of Medicine and Surgery. A smaller share is provided by Obstetrics and Gynecology, Pediatrics, and Neurology. To Dermatology, Oto-Laryngology, Urology and Orthopedics a relatively small amount of time is assigned. In these latter branches it is believed wisest to give the student only the essential principles of each specialty and to acquaint him with the special methods and technique of each. In the undergraduate work, therefore, there is but little opportunity offered to the teachers in these specialties.

Nor is it sufficient for their proper development merely to have an outpatient service, no matter how large and varied it may be. To obtain the greatest growth and advance in these fields it is of the greatest importance that they should have not only hospital facilities, but also the opportunity for teaching advanced students in the finer details of their branches. This seems to be one of the strongest reasons for developing courses for graduates in connection with the School of Medicine. They also require the aid and assistance of the laboratory branches and unless there is to be great duplication of buildings, equipment and personnel, they should be intimately connected with the undergraduate laboratories. There are already associated with the school a large number of men who are qualified and eager to carry on this work, and whose available time is not completely occupied by their present duties. It is therefore earnestly hoped that together with the plans for the development of the undergraduate school there may be evolved opportunities for satisfying the constantly increasing demands for courses for graduates of all kinds and degrees.

Drs. Grace, MacGuire and Fenton Taylor were forced, through the demand made on their time by increased work in the Department of Surgery, to sever their long connection with the anatomical instruction of the College. They leave behind them in the Department of Anatomy a very real sense of loss occasioned by their retirement, a grateful appreciation of the value of their teaching during their service, and the wish for their continued success in their chosen field of activity.

Department of  
Anatomy

With the beginning of the academic year a didactic rearrangement of the topics of instruction in Anatomy, Histology and Embryology was initiated. The course in Vertebrate Morphology (107-108), formerly limited to the Winter Session of the second year, was enlarged to cover both semesters of the first year and the first semester of the second year. The purpose of this course is to correlate more intimately the instruction in adult and microscopic anatomy, and to lead both of these main divisions of anatomical teaching to their logical

didactic termination as parts of a closely connected whole, treated from the standpoint of the medical student. To carry this into effect the instruction offered in Embryology is divided into two sections. In the microscopic part of the combined course the ovum is employed to demonstrate the general morphology of the animal cell. The early stages of development are then carried through fertilization, maturation and cleavage to the establishment of notogenesis and of the tridermic blastula. From the germinal layers on, the course takes up the histogenetic differentiation of the various typical cells and leads directly to the detailed histological consideration of the normal tissues, in preparation for the subsequent study of the changes involved in pathological conditions.

This section of the work has been, during the present academic year, in the very able charge of Mr. A. Elwyn, who, in the spring, was advanced by action of the Trustees to the position of Assistant Professor.

In conjunction with the closer correlation of the instruction in gross and in minute anatomy above reported, the general congestion due to lack of space and the accumulation of material obtaining in late years has been relieved through the additional opportunities offered by the removal of the laboratory of surgical pathology to new quarters in the North Wing. This has made it possible to supply the much needed general laboratory for class demonstrations and the separate research rooms. The department is now able to supplement the instruction given in microscopic anatomy with proper demonstrations and practical conferences, and to offer special courses to a limited number of students. When fully equipped the new facilities will include two research rooms for the use of the staff and special students, and a departmental library.

A laboratory manual, for use in the course in normal histology, has been prepared by Professor Elwyn, and will be available for the fall of 1920.

A reference and demonstration collection has been commenced containing now about 250 slides. This collection, which will be built up as rapidly as opportunity permits, will include a representative series of histological preparations, as

well as demonstrative material possessing histological features which cannot be adequately treated in the normal course.

The entire teaching collection comprising the class sets of histological slides has been relabeled when necessary and reclassified in order to produce uniformity and afford the opportunity for the introduction of additional slides. This work will be completed during the present summer.

The second part of the new course in Embryology comprises organogenesis and is taken up in a direct sequence with details of the adult structure in the demonstrations and lectures of the course in Vertebrate Morphology (107-108). These exercises are illustrated by full serial sections of mammalian embryos, reconstructions and the rich comparative anatomical material of the department. In the third session of this course provision is made for a series of demonstrative lectures covering the general topics of evolution, heredity and variation, with especial reference to their relations with the modern study of medicine, whose importance is constantly augmenting.

In practice the combination of students of the first and second years into a single class for the purposes of this course during the first session has proved very satisfactory and the success of the plan seems to be assured by the experience of the present academic year.

The extension of the laboratory work in gross anatomy of the second year up to March 15 has been of very marked advantage, as shown by the term marks and by the unprecedented high standard attained in the final examinations by the second-year class.

The practical instruction in visceral anatomy still suffers from a lack of sufficient time for the satisfactory completion of the important and complicated dissections of the final assignments. This condition would be remedied if laboratory work in practical second-year anatomy could be extended two weeks until the end of March. This would in no way curtail the operative surgical courses established this year, and I recommend strongly the adoption of this change in the curriculum.

The department has been engaged in completing two major lines of morphological research, in which the laboratory has been engaged for a number of years.

A. The Phylogeny and Morphology of the Vertebrate Lung.

This work was begun as far back as 1898 with the publication of the first of a series of papers on the eparterial bronchial system of the mammalia. (*Ann. N. Y. Acad. Sci.*, XI, No. 8.) Since then five further contributions to the subject have been published in the American anatomical periodicals, as additional material and observations were obtained. Two larger papers were published during the current year covered by this report, viz. 'The Morphology of the Pulmonary Artery in the Mammalia'. *Anat. Rec.* Vol. 17, No. 4, December 1919, and 'A Critique of the Theories of Pulmonary Evolution of the Mammalia'. *Am. Jour. Anat.* Vol. 27, No. 2, 1920.

A paper on 'Homogenesis in Pulmonary Evolution' was presented at the Washington meeting of the Anatomical Association in April of this year and published in abstract in its Proceedings. Preparations are now nearly completed for issuing the concluding and main contribution of this investigation, in folio form, as one of the *American Anatomical Memoirs* published by the Wistar Institute of Philadelphia. Conditions obtaining during the war and immediately thereafter imposed great difficulties in the manufacture of illustrations, in securing suitable paper for permanent plates and in printing. We have, however, been able to prepare forty-two full-page folio two-color blocks for the main plates and have secured sufficient Japanese vellum paper for the printing of the edition, in addition to a number of zinco-type line cuts and photogravures for text-illustration. It is hoped that the assembly of this material will be completed shortly and that the Memoir can be published during the current year.

B. The second major investigation in which the department is at present actively engaged, comprises a detailed study of the ontogeny of the mammalian axial venous system, with especial reference to the interpretation and genetic significance of its adult variants. This work was initiated in 1906 in conjunction with Professor McClure of Princeton University and

Professor Darrach. In the following years the scope of the investigation was greatly enlarged and the material which has been assembled during this period, especially on the embryological side, will form the basis of an extensive Memoir. The summary of the results obtained was presented at the recent meeting of the Association and will be published during the summer.

The Department of Bacteriology during the first year of its activities following the war was confronted with the necessity of reorganization since, apart from the professor and the technician and some of the volunteer workers, the full-time staff had to be replaced. Dr. J. Howard Mueller was appointed at the beginning of the year to the position formerly held by Dr. Hopkins, and Dr. Oscar Teague came into the department as associate for special research.

Department of  
Bacteriology

The courses given by the department in previous years were not changed in any detail, but in the course of the year a considerable number of what seemed to us weak points in arrangement of instruction were found, points which we hope to remedy during the coming year. The budget increase which has been allowed for next year, with the additional full-time and half-time assistants for which this provides, will make it possible to rearrange the medical students' course in such a way that more individual instruction can be given in those phases of the work which bear upon Medicine. Also it may be possible to include an extra lecture once a week with occasional quizzes, in order to coordinate the bacteriological technical work with other phases of the medical curriculum.

During the year a grant was obtained from the Inter-departmental Social Hygiene Board, consisting of \$4,200 to be devoted to the special study of the bacteriology and immunity of chancroids. Dr. Oscar Teague has been placed in charge of this work, and with an assistant and a technician, in one of the special rooms, has been studying chancroids and the Ducrey bacillus since the beginning of the fall semester. The results of this work have already borne a certain amount of fruit in that Dr. Teague has reason to believe that a bac-

teriological cultural diagnosis can be made by isolation of the Ducrey bacillus within about twenty-four hours. None of this work, however, is yet ready for publication.

The attendance in the non-medical courses has been about as usual, and has indicated the continuous need for instruction in bacteriology to physicians and students of public health.

Plans have been submitted for enlarging the curriculum by two courses, and converting the department gradually into one of general microbiology and immunity for medical and non-medical students.

Research in addition to Dr. Teague's works mentioned above has been going on as follows:

Dr. J. Howard Mueller—bacteriological metabolism with particular attention to amino acids in media. Considerable progress has been made by Dr. Mueller, but his article is not yet ready for publication.

Dr. Reuben Ottenberg has been and is still working on the dissociation of antigen and antibody, using pneumococcus antiserum as his material.

Mrs. Parker has continued on influenza studies, and is collaborating with Miss Kuttner and Professor Zinsser in a general study of certain phases of bacterial toxæmia.

Drs. Cleveland and Meleney are studying the grouping of the surgical streptococci.

Professor Zinsser, with the assistance of Miss Kuttner and recently Mrs. Parker, is occupied in the study of certain poisons produced by streptococci and a number of other bacteria, work which is well advanced, and may be ready for publication some time in the fall. He is also engaged in a continuation of the studies of bacterial anaphylaxis; and work has been carried on in connection with the permeability of the kidneys for foreign proteins in hypersensitive children, but this work has been interrupted because of the departure of one of the student assistants.

The department has been helped considerably in the teaching of the serological course by Dr. Samuel Cochran who is here from China for the purpose of studying teaching methods; and both Dr. Cochran and Dr. Edward Raymond who is in

the department for a similar purpose, will assist in the teaching of the undergraduate course in the coming year.

Since the scientific work of the department was not properly resumed after the war until last October, few of the researches begun at that time have reached a stage at which they can be published. There has, however, been published during this period, in December, 1918, an article by Dr. J. V. Cooke, now of St. Louis, on 'Complement Fixation with Acid-Fast Bacteria', completed in this laboratory just before the war. Professor Zinsser has published an article on 'The Prevention of Communicable Diseases in Industrial Communities', an article on 'Bacterial Toxaemia', delivered as a Presidential Address before the Society of American Immunologists, has completed and sent in for publication an article on 'The General Prevention of Bacterial Communicable Diseases', for the Nelson System of Medicine, and another on 'The Clinical Manifestations of Early Cases, the Etiology and Epidemiology of Influenza', for the Cambridge System of Medicine published by Edsall.

The past year was the second in which the time of two full sessions, as allotted to the course in Physiological Chemistry, was devoted to instruction of first-year students of medicine. The development of the course on the new schedule has included further additions of experiments and demonstrations designed to give increased practical knowledge of the chemical foundations for dietetics and of the relations of biochemistry to clinical medicine.

In addition to the instruction of first-year students of medicine, instruction has been given to sixteen advanced students. Of this number, thirteen were candidates for the degree of A.M. or Ph.D., or both. Some of these students engaged in research with members of the staff. Some took only routine graduate courses.

The entire staff of the department regards the function of teaching advanced students as one of the most important devolving on it, and welcomes every opportunity afforded to it in this relation. The staff realizes that serious effort in the

Department of  
Biological Chemistry



instruction of such students not only gives to the students the knowledge and training they seek, and the inspiration to research they may need, but also that it stimulates the instructors to keep closely in touch with the developments in their field from every point of view and quickens their interest as instructors in all the relationships of their science.

Research has been conducted actively in a number of relations. The department continues to serve effectively in the promotion of interest and achievement in research along lines in biochemistry, physiology, pathology, pharmacology, and bacteriology, that involve the teeth and are related also to systemic conditions. These dental researches, during the past year, related particularly to the therapeutic efficiency of the electric current applied to infected teeth (after the removal of the pulps); the nutrition of filled pulpless teeth, tested with "vital" stains; the channels of migration of bacteria and diffusion of toxins from infected teeth to the eyes; the biochemistry of oral bacteria; and chemico-physiological qualities of saliva, as basis for its study in clinical diagnosis in general and in dental pathology in particular.

Other ranges of research, unrelated to the dental investigations, extended into nutrition and dietetics, with special reference to the separation of vitamins and their direct study chemically and physiologically; the proportions of water, solids, ash, calcium, and phosphorus in food very poor, on one extreme, and very rich, on the other, in vitamins; the reaction of typical foods; the effects (toxicity) of potassium chlorate on nutrition; the influence of aluminium on growth; methods for the quantitative determination of fat in feces and of guanidine in urine; the preparation of caseinogen-phosphate.

The bibliography for the Department of Biological Chemistry, having recently been published for the calendar year, 1919, in the *University Bibliography*, is referred to only in passing, on the assumption that this bibliography is conveniently available.

The laboratory work for the first-year class of medical students, with the entire class scheduled to appear together at each session, was given, of necessity, in the upper and lower

laboratories simultaneously, requiring the presence on the floor of a larger number of officers, when the students were in the laboratory, than would have been the case if the course could have been given to all the students on one floor.

The lower laboratory is deteriorating rapidly, which increases the urgency of our need for the facilities in the chemical section of the 60th Street Annex.

The department continues to supply to the other departments distilled water and absolute alcohol. We should be glad to cooperate with the departments in the recovery of alcohol from "waste" containing it, and in all other possible ways by which our facilities could be put to the use of all concerned.

The head of the department served as executive officer of the editorial Board of the *Journal of Dental Research*, founded at his suggestion, and also continued as editor of the Biological Department of *Chemical Abstracts*, issued by and for the American Chemical Society.

Many changes have taken place in the personnel of the Department of the Practice of Medicine during the year. Under the circumstances it was not thought desirable or possible to appoint an associate professor to take the place of Professor Palmer.

At the Vanderbilt Clinic, Dr. Herman Mosenthal assumed charge of the Metabolism Clinic and built up an excellent department with a group of enthusiastic young assistants.

During the year, two voluntary assistants have worked at the Presbyterian Hospital as special students. At the request of the Rockefeller Foundation, Dr. Torres of Brazil and Dr. H. J. Smyly of the Union Medical School in Pekin were accepted in this capacity.

At the Presbyterian Hospital, investigations upon streptococcus infections have been carried out by Dr. F. A. Stevens assisted by Dr. Brady and researches on asthma and serum disease by Dr. George M. Mackenzie and Professor Longcope.

A gift of \$5,000 has been made by Mr. Charles Howland to the Presbyterian Hospital to cover the expenses of an investigation of epilepsy. This investigation is being pursued by Dr. H. Rawle Geyelin and Dr. Louis Bauman. Dr. Bauman

is also carrying out some chemical studies in the excretion of creatin in exophthalmic goitre. Dr. Bertram J. Sanger has been making some investigations upon the basal metabolism in exophthalmic goitre. At the Vanderbilt Clinic Dr. Mosenenthal with his assistants have been investigating various phases of chronic metabolic disease, the results of which will shortly be published. Both Dr. Stevens and Dr. Mackenzie presented some of the results of their studies at the meeting of the Society for the Advancement of Clinical Investigation at Atlantic City this spring. Several members of the department, including Professor Vogel, Dr. Lamb, Dr. Herrick, Dr. Bauman and Professor Longcope have contributed articles to both the Oxford and Nelson Systems of Medicine.

Considerable equipment has been added both at the Vanderbilt Clinic and at the Presbyterian Hospital. The Metabolism Department at the Vanderbilt Clinic was moved from the small room near the Sloane Hospital to larger accommodations in the main portion of the Vanderbilt Clinic. These rooms have been equipped and supplied with apparatus largely from the Department of Clinical Pathology.

At the Presbyterian Hospital a room opposite the Janeway Library, formerly used for the instruction of nurses was, through the kindness of the Board of Managers, converted into an accessory laboratory, which was equipped with a Tissot Spirometer, a Haldane Gas Analysis Apparatus, and a Benedict Minot Portable Respiratory Calorimeter for the determination of basal metabolism. Several pieces of apparatus have been added to the Chemical Laboratory at the Presbyterian Hospital.

The Janeway Memorial Library has been increased by numerous volumes. A very handsome donation was made by Mrs. H. D. Dakin to the Janeway Library and to the Students' Library at Columbia University. This consisted of 552 volumes from the Library of Dr. Herter and included some rare and valuable books.

The following changes have been made for the coming year: Dr. Sittenfield has been made an associate. Dr. Dieterich has resigned to enter the foreign service of the American Red

Cross. Dr. L. von Meysenbug has been appointed instructor to replace Dr. Dieterich. Dr. William C. von Glahn has been appointed assistant resident pathologist at the Presbyterian Hospital and will succeed Dr. Meleney as resident pathologist on the latter's departure for China in October. Dr. Bailey has been on leave of absence because of illness.

Department of  
Pathology

Professor Naosuke Hayashi of the Pathological Institute, Aichi Medical College, Nagayo, Japan, and Dr. T. Kibata are working as graduate students in the department. Dr. B. S. Oppenheimer is working on the Pathology of the Conduction System, and Dr. G. F. McCann is assisting Dr. Zucker in chemical work.

Professor Jobling has carried on his studies on the Etiology of Pellagra. Dr. Pappenheimer has been studying pathological material from cases of war gas poisoning, the material to form part of the report of 'The Pathology of the War Gases' for *The Medical History of the War*. Dr. Johnson, in addition to his departmental duties, has been serving as Pathologist to the Sloane Hospital for Women, and has been cooperating with Professor Jobling in his work. Dr. Zucker has been working on the biochemistry of the lipoids. Dr. Sittenfield has been studying the influence of X-ray upon the blood lipase, and the effect of X-ray upon the susceptibility of guinea-pigs to tuberculosis.

No radical changes in the methods of teaching have been made during the past year, but the course has been amplified and improved. A successful feature of the teaching has been the weekly presentation of papers on assigned subjects by students, with class discussion. Opportunity has also been given for students to make complete histological examinations of autopsy material from the autopsies in which they have been taken part. A room in the laboratory has been fitted up for the special use of the students. A number of the students are working at present as volunteers at the Presbyterian Hospital laboratory. A new course in Medical Illustrating will be offered during the coming year by Mr. A. Feinberg, who has been made an instructor in the department. The course in

Gross Pathology will be extended over the first semester of the third year. The limited amount of gross material at the disposal of this department, as well as the desirability of collaborating the clinical and pathological instruction, have made this extension of the work in Gross Pathology advisable.

The equipment of the chemical laboratory has been considerably improved, and also the facilities for the care of the animals.

During the absence of Professor Lieb the teaching in this department was carried on under the direction of Professor George B. Wallace of the Bellevue Medical College. The heartfelt gratitude of the faculty for his earnest cooperation and successful efforts are hereby acknowledged. Without his generous help the teaching of this branch would have been very seriously handicapped. Dr. Mueller of the Department of Bacteriology began a study of the influence of solvent on the action of drugs.

This department has been very active as is evidenced by the following figures:—Total number of visits 34,220. New patients 3,584. Total number of X-ray treatments and observations 3,521. Kromayer lamp 190. Total number of syphilis patients 1,068. Salversan treatments 9,421. Mercury injections 9,101. Wassermann reactions 3,984. Spinal punctures 228. Spinal treatments 502.

In addition to the undergraduate work there were thirty postgraduates who remained from three months to a year.

At the beginning of the academic year, Drs. H. B. Williams and E. L. Scott were released from military duty and resumed their positions on the staff of the department, Dr. Williams continuing as assistant professor and Dr. Scott being promoted from an associateship to an assistant professorship. Associate R. H. Cunningham and Instructors Otto H. Leber and R. H. F. Dinegar retired from the department, and Drs. H. C. Coombs, Ernst P. Boas, Euen Van Kleeck and H. N. Vermilye were appointed to instructorships. Those who have served on the

Department of  
Physiology

Department  
of Pharmacology

Department of  
Dermatology and  
Syphilology

staff during the year are therefore Drs. Lee, Burton-Opitz, Pike, Williams, Scott, Bender, Boas, Coombs, Van Kleeck, and Vermilye. Associate Professor Pike was granted a leave of absence for the second half-year and has spent this time in research at the Harvard Medical School.

Researches have been performed during the year on the following topics. Frederic S. Lee: (with the U. S. Public Health Service). The physiological condition of the work of the human machine in the factory; (with L. L. Scott and A. Spohn) the chemistry of muscle during rest and after work. F. H. Pike: The nervous control of respiration; (with E. W. Wickwire) reciprocal reactions in the cardio-vascular system; (with A. B. Yates) the mechanism of the recovery or maintenance of systemic bloodpressure after complete transection of the spinal cord. H. B. Williams: The graphic registration of heart sounds. E. L. Scott: A study of the MacLean method for determinating blood sugar; a study of glycolysis; (with H. M. Mosenthal) a study of sugar, total fat and cholesterol in the blood of diabetics; (with A. B. Hastings) a study of sugar and oxygen relationships during rest and fatigue; (with H. E. Honeywell) a study of the normal blood sugar in the pigeon, together with observations upon several common causes of its variation; (with N. Kleitman) a study of the blood sugar in the frog. H. C. Coombs: Some aspects of the neuro-muscular respiratory mechanism in chelonians; the effects of varying pressures on the inter-abdominal musculature; the rise of bloodpressure upon stimulation of the brainstem at the level of the posterior corpora quadrigemina. A. Baird Hastings: A study of osmotic relationships of the red blood corpuscles and haemolysis during fatigue; (with C. D. Murray) a study of the conductivity of blood, serum and corpuscles; (with H. A. Murray) the effect of thyroid-parathyroid-ectomy and pyloric occlusion on the blood. B. S. Oppenheimer, Mrs. B. S. Oppenheimer and M. A. Rothschild (with H. B. Williams): The effect of lesions in the lesser branches of the conduction system of the heart.

As a member of the New York State Commission on Ventilation, Professor Lee has devoted much time during the year

to the preparation of a report on the physiological aspects of the Commission's investigations. The final report of the Commission's work, which will form a considerable contribution to the science and practice of ventilation, will be published during the coming year. The general report of the investigation of the work of the human machine in industrial occupations, which was carried on mainly during the war by the U. S. Public Health Service under Dr. Lee's direction, has been published during the present year as Public Health Bulletin Number 106, *Studies in Industrial Physiology, Comparison of an Eight-Hour Plant and a Ten-Hour Plant*. Professor Lee has served during the year as chairman of the Subcommittee on Industrial Physiology of the Division of Medical Sciences of the National Research Council. Mention should here be made of the important contribution to physiological literature entitled "Man and his Nervous System in the War," which was published in a series of several chapters in the *Scientific Monthly* by Professor Pike. Professor Williams has participated in the work of the National Research Council in two capacities: first, as chairman of a sub-committee on the promotion of cooperation in research between biologists and physicists, and secondly, as chairman of a sub-committee to collect and edit material for a book on *Methods and Technique of Physical Research*.

Volume VIII of the *Studies from the Department of Physiology* has appeared during the year, comprising reprints of thirty-one papers published during the years 1916-1919.

As a result of the reorganization of the Surgical Department during the summer of 1919, an Executive Committee was created which has had complete supervision of departmental activities during the past year.

The Executive Committee consists of the Dean, six Associate Professors of Surgery, the Professor of Orthopedic Surgery and the Professor of Urology. The policies of the department, methods of instruction, distribution of funds and appointments have been decided upon by the Committee as a whole. The administrative application of these has been

delegated to individual members of the Committee, as follows: An associate professor in charge of each of the following sub-heads: Executive Work and Finance, Laboratories and Research, Second, Third and Fourth year teaching respectively, Personnel Department, and Surgical Work in Vanderbilt Clinic; Orthopedic Surgery and Urology being in charge of the professors of those subjects.

The result of this organization has been a wider grasp of intra-departmental problems, a more intimate knowledge of the sub-departments, and more effective cooperation as a whole on the part of those who are responsible for the Department of Surgery.

The near approach of the surgical laboratories to completion in the autumn of 1919 enabled the Department of Surgery to make a number of radical changes in its methods of teaching the second and third year students. These laboratories, which occupy the sixth and seventh floors and the roof of the new laboratory building of the College of Physicians and Surgeons, were made possible by the gifts of large sums of money from several donors. They are so constructed that a large number of experiments can be performed at the same time, thus giving an entire class of students, divided into small groups, an opportunity to observe intimately the production of the same surgical condition. This implies a plant similar in all details to the operating pavilion of a modern hospital since the work must be done with the maintenance of the same aseptic precautions as prevail in operations on human beings. It includes sterilizing plant, nurses' work room and dressing room, instrument and supply rooms, washing machines, etc. There has also been provided ample space for keeping the animals after operation, a room for autopsies, and technical and record departments for the preparation, study and recording of the material derived from operations. In addition there have been provided rooms for bacteriological and chemical work in connection with surgical problems and an amphitheatre.

With these facilities it has been possible during the past year to improve the course given to the second-year medical students which was designed as their introduction to Surgery.



Formerly the subjects studied by these students were presented chiefly by means of conference, with lantern slides, with some clinics and the study, to a limited extent, of microscopic slides. This year the various fundamental subjects of wounds, infections, gangrene, etc., in many of the tissues and organs of the body were studied by the actual production of these conditions by the five instructors before small groups of nine or ten students. Records of the operation were kept by individual students from each group and these men were required to make observations on the course of the lesion from time to time. This laboratory work was supplemented by conferences with lantern slides and by the study of gross specimens and microscopic slides. Every class day one or more students were assigned to make reports of their observations and deductions before the entire class and all the instructors, and in the discussion following these reports many obscurities and misunderstandings were clarified. A syllabus was devised covering the work assigned to each student and instructor for the duration of the course, and copies were given to every student so as to avoid confusion and consequent loss of time. While this method of instruction was a novelty, the instructors felt amply repaid for their efforts because of the unusual enthusiasm and diligence displayed by every second-year student.

In the third year, because of the above laboratory facilities, it has been possible for the first time to bring to the student in regional surgery, pathological reproductions of many of the more common human diseases by experimental demonstration. The opportunity thus afforded for careful study of, first, the production of the lesion, secondly, the course of the disease with its complications, and finally, the gross and microscopical findings at autopsy, has been of great value in his conception of these diseases in human beings.

As in the second year, this innovation has been received with sustained enthusiasm by the student body and after the results of many conferences and a rigid examination at the termination of the course have been studied by the instructors, it is felt that this method of instruction has been most worth while.

During the fourth year, in which the students spend much of their time as clinical clerks in the wards of hospitals associated with the college, they have received clinical and bedside instruction in small groups and individually over a period of from seven to eight weeks.

The course during the past year has been so conducted that individual instructors who were especially interested in any one subject in the hospital have been giving all the instruction in that subject to the clinical clerks. This, in addition to the fact that emphasis has been laid on the follow-up work in connection with the study of cases in the hospital, has afforded the fourth year student an opportunity to follow through his cases in a manner heretofore impossible.

The reorganization of the Surgical Department of Vanderbilt Clinic was made in the beginning of the academic year, and a new Chief of Clinic appointed on a full time basis, together with practically a new surgical staff. These changes, in addition to the active support of the members of the Executive Committee throughout the year, have caused a distinct improvement in both treatment of surgical patients in the Clinic and the teaching carried on in that department. A system by which one member of the Executive Committee acts as a consultant on the various days during the week has proved of real value to the Clinic staff as well as of much interest to the Consultant staff.

Owing to the fact that the actual completion of the new laboratories did not take place until the middle of the year, and also due to the fact that much of the burden of teaching in the second and third years fell upon the laboratories, research work as such has of necessity been curtailed. Nevertheless during the past year several problems have been begun under the supervision of the Director of Laboratories, and this work will be carried on on a much larger scale during the ensuing winter.

Respectfully submitted,

WILLIAM DARRACH,

*Dean*

*June 30, 1920*

# GEORGE CROCKER SPECIAL RESEARCH FUND

## REPORT OF THE DIRECTOR FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR:

I have the honor to submit the seventh annual report from the George Crocker Special Research Fund.

Teaching In accordance with the policy of the Crocker Fund in the past, the members of the staff have during the year done some practical work in teaching in addition to the research for which the endowment was especially designated. It was particularly evident that the quality of the students applying for admission to the summer course last year was higher than usual; and that there is a considerable demand for instruction in the diagnosis of tumors is obvious, especially since the closure of opportunities abroad has forced men to turn to American laboratories.

The survey of the hospitals of the country recently completed and the suggestions for standardization which resulted from the facts so obtained have created a new demand for accurately trained diagnosticians, and unquestionably the need will increase rapidly in the future and necessitate a continuation and expansion of our teaching of this phase of tumor pathology.

Professors Wood and Prime conducted that portion of the work of the second-year class in pathology at the College of Physicians and Surgeons which is devoted to the study of tumors. The conditions were more satisfactory than during the previous year, since four weeks were allowed to this part of the curriculum and the giving of a much fuller and better

course was thus possible. The reduction in the number of students also permitted the raising of the standard of teaching by the elimination of some of the defectives whom the school has in the past endeavored, without much success, to drive through a four years' curriculum. With only half the number of students, and all of them of unusually high grade, teaching became a pleasure rather than a burden, and the results are shown by the fact that practically the entire class passed the final examination, although this was much more difficult than that set in the previous year.

The changes in the staff have been few. To the great regret of the Director, Dr. Robert T. Frank was unable to return to his place in the laboratory, where his wide knowledge of pathology and experimental methods had been of Staff the greatest value to the members of the staff.

Mr. Paul M. Giesy, who had been studying substances which stimulate the growth of the uterine musculature, completed his work and prepared a thesis reviewing the researches of others and giving full details of the methods worked out under his supervision. This thesis has been accepted by the University for a Ph.D. in chemistry, and will shortly be published in monograph form.

Dr. Otto Krehbiel joined the staff in February, and has been of the greatest assistance in certain of the chemical analyses of the blood which were carried on during the year.

Dr. J. Gardner Hopkins was appointed an associate in roentgenology and has treated and studied a considerable amount of clinical material referred to the Crocker Fund chiefly from St. Luke's Hospital.

Dr. Isidor Kross worked in the laboratory during the year on the effects of blood transfusion upon tumors in animals, and will continue his studies.

Dr. Frederick Prime, associate in cancer research, was advanced to the grade of assistant professor from July 1, 1920.

At the invitation of the Director of the Imperial Cancer Research Fund, Professor Woglom spent his sabbatical half year in London, working on problems in tumor chemistry. Post-war conditions in England made serious inroads on the

staff of the Imperial Cancer Research Fund, and Professor Woglom, owing to his previous experience as an associate in that institution, was able to be of great assistance.

During the year the Director made a number of addresses, speaking before the Sullivan County Medical Society at Newport, N. H., on "The Practical Value of Laboratory Researches in Cancer;" before the Brooklyn Pathological Society, on "Newer Aspects of Cancer;" before the Suffolk District Medical Society at Boston, on "Some Vital Problems in the Diagnosis and Treatment of Cancer;" before the Society of Sigma Xi at Columbia, on "Recent Advances in Experimental Medicine;" before the Association of American Physicians at Atlantic City, on "The Therapeutic Action of X-Rays;" before the Civics Teachers of the Department of Education, New York, on "What a Public School Teacher Should Know about Cancer;" and before the Kings County Medical Society, Brooklyn, on "The Menace of Cancer."

On April 1, 1920, the American Association for Cancer Research held its thirteenth annual meeting at the Crocker Fund laboratory, and the members of the staff read a number of papers and contributed to the discussion, which will be published in full in the *Journal of Cancer Research*.

As usual, standard mouse and rat tumors have been supplied to a number of institutions, among them the University of Pittsburgh, the University of Illinois, the Johns Hopkins Hospital, the Japanese Society for Cancer Research and the University of Tokyo, Japan, the University of Pennsylvania, Bowdoin College, and the Harvard University Medical School, and to a number of private investigators.

A list of the publications made from the laboratory during the year follows:

"The Relation of Pathology to Practice." F. C. Wood.

*Journal of the American Medical Association*, 1919, lxxiii, 569.

"Diagnostic Incision of Tumors." F. C. Wood.

*ibid.*, 1919, lxxiii, 764.

Notes on Tumors. F. C. Wood, New York, 218 pp.

"Lethal Dose of Roentgen Rays for Cancer Cells." F. C. Wood and F. Prime.

*Journal of the American Medical Association*, 1920, lxxiv, 308.

"Size of the Spleen in Immune Mice." W. H. Woglom.

*Journal of Cancer Research*, 1919, iv, 281.

"Carcinoma of the Uterus in a Mouse." W. H. Woglom.

*Proceedings of the New York Pathological Society*, 1919, xix, 60.

"Lymphocytes and Cancer Immunity." F. Prime.

*Journal of Cancer Research*, 1920, v, 105.

"Fluctuations in Induced Immunity to Transplanted Tumors." F. D. Bullock and G. L. Rohdenburg.

*ibid.*, 1920, v, 119.

"Fluctuations in Concomitant Immunity." F. D. Bullock and G. L. Rohdenburg.

*ibid.*, 1920, v, 129.

"Hyperglycemia in its Relation to Immunity." G. L. Rohdenburg and H. F. Pohlman.

*American Journal of the Medical Sciences*, 1920, clix, 853.

"The Isoagglutinins and Isohemolysins of the Rat." G. L. Rohdenburg.  
*Proceedings of the Society of Experimental Biology and Medicine*, 1920, xvii, 82.

"Importance of the Spleen in Resistance to Infection." D. H. Morris and F. D. Bullock.

*Annals of Surgery*, 1919, lxx, 513.

"A Basal-cell Epithelioma of the Rat." D. H. Morris.

*Journal of Cancer Research*, 1920, v, 147.

"Influence of Pituitary Extracts on the Genital Tract." R. T. Frank.

*Journal of the American Medical Association*, 1919, lxxiii, 1764.

During the year Professor Woglom and Professor Prime served as editor and associate editor respectively of the *Journal of Cancer Research*. Professor Woglom also continued as secretary of the American Association for Cancer Research, and Dr. Rohdenburg served as secretary and editor of the New York Pathological Society.

A survey of the list of publications during the year will show the varied nature of the research work carried on in the laboratory of the Crocker Fund. Leaving aside the possible general educational value of the public addresses made and the undergraduate and postgraduate teaching done by the staff, certain phases of the research work are of immediate practical importance to the

Experimental  
Work

medical profession. This is well exemplified in the paper on the lethal dose of x-rays for tumor cells, in which for the first time an accurate measurement has been made of the amount of x-ray necessary to kill the cells of a standard tumor. Previous attempts to determine this important question of dosage, without an answer to which the radiation treatment of cancer is a matter of pure empiricism, have been made either by clinical observations on human beings with incurable cancer or by experiments on tissues or isolated cells of the lower animals, such as tadpoles, fertilized eggs of frogs, and ova of sea-urchins or of parasitic worms. It is evident that the latter results could not be transferred to the mammalia. The exact lethal dose is difficult or impossible to determine on human cancer without an enormous expenditure of time, for a tumor may remain quiescent for a long period, even years, after radiation treatment, before it recurs. Human tumors vary greatly, also, in their reaction to radiation, some being susceptible, others extremely resistant, and it is not always possible by microscopic examination to separate the types. With a stock of transplantable tumors of well known biological qualities, such as are in the possession of the Crocker Fund, it was, on the contrary, possible by exposure of tumor material to carefully measured doses and subsequent inoculation into animals to determine absolutely the death point of the cells. It could, therefore, be decided accurately what quantity of x-ray produced under conditions available for clinical use and by an ordinary commercial machine was necessary to kill all the cells of a tumor. The results permit the conclusion that while, as has long been known, certain human tumors of low malignancy can unquestionably be cured, many of the new growths which involve the internal organs require so large an amount of x-ray that their proper treatment would place the life of the patient in jeopardy. If a tumor is very susceptible to radiation it may be possible to effect a cure by approaching the maximum dose, but some tumors are very much more resistant than others and the highly resistant varieties are still beyond any real and permanent benefit from radium or x-ray treatment. Among these may be

included most of the tumors of the digestive tract and those of the lungs, liver, kidney, and spleen. While, therefore, a certain amount of improvement often follows raying, even in the case of the more resistant tumors, no permanent cure of these types as a result of treatment either by radium or by x-ray can at present be hoped for. The lethal dose of radium having already been determined in this laboratory, comparative studies were possible, and these seem to show that there is but little if any difference between the effects of the two agents when applied under strictly comparable conditions. The advantages of radium lie in its portability and in the fact that it can be inserted into the tumor itself, while the x-ray is of necessity applied only externally and, therefore, through the skin and other tissues covering the tumor. In the use of x-ray an additional danger lies in the high voltage which must be used in producing rays which will penetrate in sufficient concentration to the inside of the tumor without damaging the skin. On the other hand, the cost of a sufficient quantity of radium is in many instances prohibitive, while a satisfactory type of x-ray apparatus is available in all the larger cities. With the limited amount of radium now available it is probable that the use of this agent will in the future be confined very largely to institutions with endowments sufficient to purchase the large quantities necessary. An interesting phase of this financial problem is the recent purchase by New York State of \$250,000 worth of radium for the State Institute for the Study of Malignant Disease at Buffalo, in order that this remedial agent may be placed at the disposal of those too poor to pay even a fraction of the interest charges on so large a sum.

It is hoped that by the development of x-ray apparatus which will furnish current of very high voltage and thus produce rays of approximately the same wave length as the rays of radium, a great improvement in the therapeutic effects of this physical agent may be obtained. Consideration of such apparatus has been taken up by the electrical engineers of several commercial manufacturers with the view that the Crocker Fund may have at its disposal a very much more



powerful source of x-ray than has hitherto been employed in therapeutic work. But the difficulty of handling large currents of extremely high voltage and of giving sufficient protection to the patients in the neighborhood of the conductors which supply the tube, must at present limit the use of such apparatus to specially equipped institutions.

Faced by the dilemma of the natural limitations to the amount of x-ray which can be given to a patient, several members of the staff have been carrying on a series of experiments in combining maximum doses with other physical agents which act destructively on tumor cells, in the hope that large amounts of energy may thus be set free inside the tumor to destroy the cells and yet the patient's life be not jeopardized. One form of such energy is heat, and experiments on animals so far seem to indicate that it is possible by the application of suitable electric currents to heat the substance of a tumor so as to produce considerable destructive action without in any way injuring the patient. This has been done with animal tumors, and the combination heat and x-ray has seemed to be more effective and less dangerous than either agent used separately; that is, if one half the fatal dose of heat, and one half the fatal dose of x-ray are given together, the animals suffer much less than if a full dose of x-ray or a full dose of heat is given alone. A dose of x-ray necessary to kill a tumor in an animal usually causes death of the animal in the course of a few days, but with a combination of heat and x-ray better results have been obtained. Whether these findings can be transferred with success to human beings it is not possible to state at the present time. Only by the most careful and well controlled experimental work on persons with inoperable tumors who are willing to run the risk of serious discomfort can such information be obtained.

Other phases of the work have less obvious practical value. The conditions of resistance to the implantation of tumors in animals is still far from the major problem of a cancer cure, for unfortunately while we are able by suitable treatment under certain circumstances to prevent a tumor's taking in a healthy animal we have as yet been unable to prevent an animal's

own tumor from growing freely in its body. All human tumors are, of course, original in the patient's own tissues, and so far the existence of any immunity has not been demonstrable, though in extremely rare instances an untreated tumor has seemed for a time to lose its capacity to grow. But most of the reported cures of this type will be found to be merely insufficiently observed instances of retrogression, the tumor recurring with full virulence a few years after it has apparently disappeared.

In this connection a number of studies by Professor Prime, one of which, on lymphocytes and cancer immunity, was published during the year, have definitely shown that the hope which was expressed that immunity might be induced by the stimulation of this form of blood-cell by x-ray has not been realized, and another failure to obtain positive results has been added to the archives of the most baffling problem in medicine.

The question of diagnosis in cancer is vital, for with the knowledge that cancer in its incipency is always a local disease and could be removed without danger of return could a diagnosis be made, everything which leads to an improvement in our diagnostic ability is a real advance toward the control of the disease. One of the important methods for early diagnosis is the removal of a small fragment for microscopic study. By many this has been thought to be a hazardous procedure, but in a paper published from this laboratory it has been shown that, in animals at least, such incision does not cause any distribution of the tumor, and that, therefore, this method of determining the nature of a small tumor not otherwise diagnosable may be safely employed.

Another phase of the obscure chemistry of the blood has been brought forward by Dr. Rohdenburg, who has shown that certain peculiar alterations in the sugar content of the blood occur in a considerable percentage of patients or animals with cancer. Whether this can be used for diagnosis only a large clinical experience will determine.

Several papers have been published during the year reporting the occurrence of unusual tumors in animals, which are of importance chiefly in showing that various types of tumors

long recognized in human beings have their analogues among animals. Therefore, the unknown agent or agents which lie behind the production of cancer apply both to mice and to men.

That the cause or, what is more probable, the causes of cancer will be discovered within a short time is more than doubtful. The ultimate solution of the problem may have to wait upon advances in our knowledge of conditions of growth and life of cells as yet not only undiscovered but not even foreshadowed. In the meantime, much yet remains to be done, which, while it may not solve the ultimate problem, will be of great help in the diagnosis and treatment of cancer, and this is after all more important as far as the human race is concerned than is intimate knowledge of the cause of the disease, for even should the cause be discovered it does not necessarily follow that a remedy will be immediately forthcoming.

Respectfully submitted,

FRANCIS CARTER WOOD,  
*Director*

*June 30, 1920*

# SCHOOLS OF MINES, ENGINEERING AND CHEMISTRY

## REPORT OF THE DEAN

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR:

I have the honor to present to you the following report on the work of the Schools of Mines, Engineering and Chemistry in the academic year just closed.

The number of students registered this year in the professional engineering courses was 166, 44 in the third year or graduating class, 49 in the second-year class, 55 in the first-year class, 6 in the post-graduate courses for U. S. Navy Officers and 12 special students. Of these 99 were prepared in Columbia College, 59 in thirty-two other colleges and universities in the United States and 9 in foreign universities or technical schools. From the detailed table below it is apparent that the new plan of instruction, involving previous specified college preparation, is attracting students from a wide area.

Institutions from which students come:

### UNITED STATES

|                                       |    |                                       |   |
|---------------------------------------|----|---------------------------------------|---|
| Baldwin Wallace College . . . . .     | 1  | Notre Dame University . . . . .       | 1 |
| Baltimore Polytechnic . . . . .       | 1  | Oberlin College . . . . .             | 1 |
| Carnegie Inst. Tech. . . . .          | 2  | Princeton University . . . . .        | 1 |
| Carroll College . . . . .             | 1  | Rensselaer Pol. Inst. . . . .         | 1 |
| Case School . . . . .                 | 1  | Rutgers College . . . . .             | 1 |
| College of City of New York . . . . . | 9  | Sheffield Scientific School . . . . . | 3 |
| Colorado School of Mines . . . . .    | 2  | Stevens Inst. Tech. . . . .           | 2 |
| Columbia University . . . . .         | 99 | Syracuse University . . . . .         | 1 |
| Cooper Union . . . . .                | 2  | Union College . . . . .               | 2 |
| Cornell University . . . . .          | 1  | U. S. Naval Academy . . . . .         | 8 |

|   |   |                                    |            |
|---|---|------------------------------------|------------|
| Dartmouth College . . . . .             | 1 | University of Oregon . . . . .     | 1          |
| George Washington University . . . . .  | 1 | University of Rochester . . . . .  | 1          |
| Harvard University . . . . .            | 2 | University of S. C. . . . .        | 1          |
| Missouri School of Mines . . . . .      | 1 | University of Washington . . . . . | 1          |
| Montana State School of Mines . . . . . | 1 | Whitman College . . . . .          | 3          |
| Northwestern University . . . . .       | 1 | Yale University . . . . .          | 3          |
| Total . . . . .                         |   |                                    | <u>157</u> |

## FOREIGN

|   |          |
|---|----------|
| Catholic University of Santiago (Chile) . . . . . | 1        |
| Russian Academy Artillery (Russia) . . . . .      | 1        |
| School of Mines (Peru) . . . . .                  | 1        |
| Technische Hochschule (Germany) . . . . .         | 1        |
| University of Berlin (Germany) . . . . .          | 1        |
| University of Liege (Belgium) . . . . .           | 1        |
| University of Marseille (France) . . . . .        | 1        |
| University of Paris (France) . . . . .            | <u>2</u> |
| Total . . . . .                                   | 9        |

There is good reason to expect that after our admission requirements have become better understood throughout the country the proportion of students prepared elsewhere than in Columbia College will increase. The student who can secure his collegiate preparation in the pre-engineering course in Columbia College is indeed fortunate, but it should be further advertised that by proper selection of studies adequate preparation for admission to our engineering schools may be obtained in nearly every high grade college or university. For reasons of economy, family tradition, or on other grounds, some other college than Columbia is in many cases more available to the student for his undergraduate education.

In any comparison of our registration with that of other engineering schools, or with our numbers under the former four-year curriculum, account must be taken of the students in the pre-engineering course in Columbia College. These have this year numbered 404. In the College this group is distinguished no less by its numbers than by its quality, forming what is probably the ablest body of students in the College. The number of men who have been enrolled in this pre-engineering course has been increasing rapidly, the figures being as follows:

## MINES, ENGINEERING, AND CHEMISTRY III

|                   |     |
|-------------------|-----|
| 1914-15 . . . . . | 88  |
| 1915-16 . . . . . | 191 |
| 1916-17 . . . . . | 230 |
| 1917-18 . . . . . | 190 |
| 1918-19 . . . . . | 298 |
| 1919-20 . . . . . | 404 |

The U. S. Navy, through the Post-graduate Department of the Naval Academy at Annapolis, resumed last September the practice, interrupted by the war, of sending officers here for special instruction in electrical and mechanical engineering, following preliminary studies in the Post-graduate School at Annapolis. The group of students this year consisted of six lieutenants or lieutenant-commanders who had been in the Post-graduate School several months following the end of the war. Hereafter the naval officers coming to study at Columbia will first have had a full year of preliminary study at Annapolis.

In the course of the Spring Session action was taken by the faculty and by the University Council definitely establishing a three-year course combining the study of engineering and business principles and practices, to be known as the course in Industrial Engineering. Professor Walter Rautenstrauch was made faculty representative for the new course. The first year of this curriculum will be offered in 1920-21. The admission requirements are the same as for the other engineering courses, namely not less than three years of college work with specified preparation in mathematics, physics and chemistry, and the course leads to the degree of Master of Science in Industrial Engineering. As the Faculty of Applied Science was already empowered to administer the requirements for the Master of Science degree, no special legislation was necessary on this point. The program of studies is divided into four main groups. The Business group embraces instruction in Accounting, Money and Banking, Business Law, Corporation Finance, and Business Statistics. The Machinery group includes instruction in Power Machinery, Thermodynamics, Mechanical Laboratory, Machine Design, and Factory Construction and Equipment. The General

The Industrial  
Engineering  
Course

Engineering group covers the fields of Metallurgy, Strength of Materials, Industrial Chemistry, Electrical Engineering, including Alternating Current Machinery and Physics Laboratory. The Industrial group deals with Labor Problems, Factory Management, Analysis of Selected Industries, Manufacturing Processes, and the Selection of Manufacturing Equipment for Productive Processes. About the same amount of time is spent with each of these groups of subjects.

This combination of the offering of the Schools of Engineering and the School of Business affords an unusual opportunity to those men who, while looking forward to the administrative or business side of productive industry rather than the technical, desire nevertheless to have their training based primarily on sound scientific and technical discipline. The admission requirements will pretty well insure that the quality of the students choosing this curriculum will be of high grade and that it will not be entered upon by students who may be attracted mainly by its novelty.

The emphasis in this industrial engineering curriculum upon business and upon human relations in industry may well have a considerable influence upon the longer established curriculums in engineering. It is very probable that more instruction in these subjects will be assimilated into the curriculums for students in the other branches of engineering study, which are sometimes criticized as having too little to do with business and human relations.

Through the Board of Managers of the Alumni Association various steps have been taken towards maintaining a closer relation and understanding between the alumni of the Schools of Mines, Engineering and Chemistry and the present faculty and student body. A plan of visiting alumni committees was begun with a visit from a representative committee of graduates in electrical engineering who spent most of the day on April 24th in the offices and laboratories of the departments of electrical engineering and physics. A report of this visit was published in the Alumni News of April 30, 1920. Other groups of alumni will make similar visits in the fall. At this time,

Alumni  
Committee  
Visit

when it is particularly difficult for the alumnus who does not return for visits to visualize the changes that have taken place, such as the transfer of the undergraduate atmosphere to the pre-engineering region of Columbia College, the numerous changes in the instructing staff and the new activities of staff and students, it is of especial value to provide for these visits by at least a fair number of representative groups of alumni each year. The Alumni Association also brought about the publication in May of an issue of the Alumni News devoted almost entirely to articles on the activities of the Schools of Mines, Engineering and Chemistry.

Of organized student activities during the year it should be noted here that the United Engineering Society was reorganized early in the year and its work carried on with vigor thereafter. Through its meetings and entertainments the students have provided themselves admirable opportunity for increasing acquaintanceship throughout the whole student body and of hearing addresses and discussion on subjects of common interest to engineers. The speakers before the Society were President Butler, Dean Harlan F. Stone of the Law School, Mr. Charles W. Baker of the *Engineering News-Record*, Mr. Harrington Emerson, industrial engineer, Professor William H. Burr, and Dr. Thomas Darlington.

Students'  
Engineering  
Society

In the Department of Mining and Metallurgy a very important development was entered upon in securing the services of Mr. Arthur F. Taggart, consulting engineer and formerly of the staff of the mining department in the Sheffield Scientific School, as Professor of Ore Dressing. When the School of Mines building was erected Professor Henry F. Monroe put into the ore dressing laboratories what was at that time the very best teaching equipment for work in this subject. Since Professor Monroe retired a few years ago there had been no professor whose main interest was in the subject of ore concentration, and the rapid development of new processes, particularly the oil flotation processes, made necessary a very thorough rearrangement and reequipping of the ore dressing labora-

Mining and  
Metallurgy



tories. This was undertaken with vigor by Professor Taggart. After considering the situation he recommended important and extensive changes in the laboratories, involving much rearrangement and the addition by gift and purchase of apparatus valued at \$16,000. The expense was met partly by the use of the gift of \$2,500 made by Mr. Arthur S. Dwight, E. M. '85, in 1917, partly by amounts received from the Miami Copper Co. for certain use of the laboratory, partly by a sum being contributed by the alumni, and the remainder by gifts of machinery from the manufacturers. Attention has been paid to the needs of both instruction and research, particularly with reference to problems connected with flotation processes.

A Dwight-Lloyd sintering machine with all accessories and certain new furnaces have been installed in the non-ferrous laboratory. The Mining museum has received several gifts, among them a large skeleton model of the Elm Orlu Copper Mine presented by the president of the company. The metallurgical laboratories have been quite busy with investigations carried on by graduate students which have resulted in the publication of several valuable papers.

Professor Arthur L. Walker accepted the invitation of the Harvard Engineering School to lecture weekly on the Metallurgy of Lead and Copper at Harvard during the Spring Session. Professor William Campbell continued to serve in the U. S. Navy throughout the year with the rank of Commander, his duties being practically those of consulting metallurgist for the Brooklyn Navy Yard and other parts of the Navy, but at the same time he gave instruction in all his courses.

Registration of students in courses in the department increased to more than twice what it was the year before.

There were no changes in the personnel of the Department of Civil Engineering, but the amount of instruction given has increased and the volume of work done in the Testing Laboratories has also gone up. As a consequence it appears that this department will need in the near future additions to its instructing staff.

As a mark of appreciation of the admirable manner in which Mr. Albin H. Beyer, Associate in Civil Engineering, has developed the work of the Testing Laboratory and instruction in his courses, his title is being changed to Associate Professor of Civil Engineering. The annual report of the Committee on Testing of the Civil Engineering Department shows that the Testing Laboratories have again increased the amount of work done over what was done the year before, this time by more than 25 per cent, and that there has been added to the equipment of the laboratories apparatus that was desirable for teaching or research purposes.

The station at Greenpoint, Brooklyn, for testing the fire resisting properties of building materials was used for a sufficient number of tests to justify its establishment. Other tests were held off on account of inactivity in the building trade and difficulty of shipping building material.

During the year the books and pamphlets acquired to date for the W. R. Peters Research Laboratory have been indexed and filed, and a large quantity of highly specialized literature on testing and the results of tests has been added to the collection.

In September, 1919, the Testing Laboratory issued its Bulletin No. 1 'Tests on the Holding Power of Railroad Spikes', a paper which was reprinted in full in one of the engineering journals and abstracted in several. The expense of this bulletin was met by the Peters Fund for Engineering Research. The Testing Laboratory proposes to contribute its share in the investigation, now considered of such wide importance, of the result of repeated and fluctuating stresses applied to metals and alloys, and for that purpose expects to install appropriate apparatus in the laboratory.

In the fall of 1919 the Department of Electrical Engineering began its work with a full staff, the three professors who were in naval service having returned to full time work, and Mr. Walter H. Sammis, E.E., having been appointed instructor in the department. The complete schedule for the full three years of the new engineering course was put into operation for the first time.

As a result of the rearrangement of laboratories in the Engineering Building after the occupancy of a large part of the building by the Navy Gas Engine School during the war the electrical engineering laboratories have been brought up much closer to the ideals of the department. The new photometric room lately established, the facilities for the use of the oscillograph as a working piece of apparatus used by every electrical engineering student in his study of alternating currents and transient phenomena, the concentration of all apparatus used for instruction in radio engineering in the Engineering Building, and the addition of a considerable amount of useful apparatus, are factors contributing to make the laboratories more satisfactory for purposes of instruction.

In order to direct the attention of electrical engineering graduates of the highest training to the opportunities in submarine cable work, the All America Cable Co. has established three scholarships of a value of \$600 each for students in electrical engineering who will look forward to employment by cable companies. There has also been a very insistent request for men trained as cable telegraphy operators, and to meet this an evening course has been arranged in this subject. The necessary apparatus is being loaned by the All America Cable Co., and thirty scholarships have been established by the same company.

The evening courses in Electrical Engineering have been well attended. In these courses instruction was given in the subjects of principles of direct current machinery, principles of alternating current machinery, and high frequency engineering. This course in high frequency engineering was given in response to the needs of a number of well trained electrical engineers and physicists employed in development and research laboratories in the city, and illustrates the type of advanced specialized instruction that Columbia University may particularly be expected to offer for the benefit of practicing engineers in the metropolitan district.

The staff of the Mechanical Engineering Department, most of whom had been absent from regular instructing work for nearly two years in the service of the Navy, had before them

last summer the heavy task of re-establishing the laboratories which had been very much disarranged by the Navy occupancy of the Engineering Building, of planning for the installation of \$25,000 worth of apparatus to be bought during the year, and of adjusting themselves to the work of instruction. Each brought to the task, however, a new point of view gained from the experience of the two years, which more than compensated for the loss in familiarity with the students and the regular duties of instruction.

Mechanical  
Engineering

In rearranging the laboratories advantage was taken of the opportunity to better them in many ways and to adapt them more particularly to the type of instruction that it is the function of the department to give under the present arrangement of the curriculum. The condition of the market as to prices and the prevailing difficulty of obtaining deliveries were such as to make it inadvisable to complete during the year the expenditure of the \$25,000 appropriation for new equipment, but a large part of the apparatus that is to be purchased under this appropriation did come in during the year and was used by the students.

Further expenditures will be needed to bring the laboratory equipment to a really proper condition as to completeness of representation of appliances, instruments, and apparatus of modern design such as our present students should have available for their use. After that the addition of such other equipment as the extension of research facilities will demand should be given serious consideration.

This department has been giving its attention to revision of its courses of instruction to bring the subject matter up to date and to adapt the treatment to the graduate student who has learned how to study and prefers references to original sources rather than tabloid doses for memorizing. Syllabi of the courses are issued to students, showing in detail the topics, text assignments, accessible references, the trade publications, records of experiments, and suggestions of problems. This procedure insures for each course a well digested plan worked out in detail as is becoming and proper for engi-

neers, who never undertake any professional job without first preparing plans and specifications. It serves also to obviate duplications and omissions because each staff member has before him in detail this record of what every other one is undertaking.

The library, and especially the catalogue library, is of great importance in the subject of mechanical engineering. No instruction in this subject, dealing as it does largely with machinery, can possibly be satisfactory unless it introduces the student to modern designs, and so fast does invention and design proceed that what is modern today is obsolete tomorrow; consequently textbooks cannot keep up to date and only from trade literature, much of it consisting of really high class texts kept up to date by manufacturers, can a knowledge of this progress be gained. Every course in this department dealing with apparatus requires the student to use the best available trade literature and sets of what is required are collected by the catalogue librarian and made available at the proper time. The work of this librarian is a most important factor in the smooth working and success of these courses and the size of the collection and completeness of the classification are already such as should render it valuable to many alumni, to whom its use is gladly offered.

The departmental personnel has been unchanged except by the addition of Mr. M. Nusim, M.E. 1905, as Associate to give instruction in the subject of steam turbines. Mr. Nusim's professional work has made him a leader in the technology of steam turbines and turbo blowers. His services were loaned by the Ingersoll-Rand Co. for one day a week for the whole year, thus insuring an authoritative treatment of an important special subject.

The addition to the staff of the Department of Chemical Engineering of Associate Professor Hixson and Assistant Professor J. J. Morgan has enabled the department to carry on its instruction to much better advantage notwithstanding a large increase in the number of students. Professor Morgan has devoted himself particularly to the development of the laboratory course

Chemical  
Engineering

in chemical engineering testing and measurements, a course which all the students are required to take in their first year. Professor Hixson has relieved Professor McKee of the too large burden of the instruction in organic industrial chemistry.

The department has this year paid especial attention to having each student become accustomed to presenting in conference reports and lectures on subjects assigned him in order to develop his power of clear analysis and presentation. The work of the staff has been considerably increased by resuming the requirement for graduation of a thesis based on experimental work and the demands on laboratory space for this purpose were quite all that could be supplied. In equipment the laboratories have had the usual additions by gift and by purchase from the regular appropriations for the purpose. The problem of laboratory space is a very serious one for this department, for not only does the demand for space come from students in the regular chemical engineering course, but also from candidates for the Doctor of Philosophy degree, of whom eleven were working in the laboratory on their dissertations during the year.

We can refer with especial pleasure to the return at the beginning of the year of Professor Kemp, senior professor of geology. After an absence of four years he resumed Geology in full health his important place in the department and in the University. With Professor D. W. Johnson also back from his government service the department had its normal working staff on duty for the first time in several years.

The demand for geologists was reflected in an increased number of students in the department in all courses, graduate and undergraduate. Four students who had already finished the first year in the mining engineering course elected the mining geology option. The superior work which these men with the preliminary engineering training have been able to do in geological courses has been very gratifying, and indications are that this mining geology feature of the department's work will prove very satisfactory and attract a high grade of student.

Relations between the Department of Geology and the

Department of Mineralogy have for obvious reasons been very close indeed, and after the death of the head of the Department of Mineralogy the question of an administrative consolidation of the two departments immediately came up for consideration. A plan is now under way to re-constitute the two departments as the Department of Geology and Mineralogy. The effect of the proposed consolidation on the course of instruction will be only that of assisting in an even closer correlation and interrelation between geological and mineralogical instruction, but the advantage of the larger unit for administrative purposes is quite apparent in the light of the development of departmental organization in the University in the past decade. The death of Professor Moses has made it necessary to make additions to the instructing staff in mineralogy, and the subject of these appointments is being given careful study.

The Faculty of Applied Science has suffered the loss of two distinguished members in the year. On November 28, 1919,

Deaths

Professor James Maclay, C.E., Ph.D., Professor of Mathematics, died after an illness of a few weeks. Except for the period when he was a student in Europe he had been connected with the work of this faculty since he came as a student in 1884. In his death the University has lost a loyal son, a scholar and a teacher of rare devotion and skill. Colleagues and students will not forget his cheering helpfulness, his fine humanity, and tolerant spirit.

On February 27, 1920, death claimed the senior member of the faculty, Alfred J. Moses, E.M., Ph.D., Professor of Mineralogy. Widely known through his textbooks and publications, Professor Moses stood in the front rank of American mineralogists in the development of systematic and effective instruction in mineralogy and in his influence as an author. His scientific interest was devoted especially to the subject of crystallography, and many of his published papers are in this field. Far from finding in crystallography purely mathematical satisfaction, he had always the aim of bringing the crystallographic side of mineralogy into more practical use by his students. The great depth and accuracy of his scholarship, although accompanied by an equal modesty, were fully appre-

ciated by all who came into scientific or educational relations with him. In disposition quiet and rather retiring, he was less widely known personally than scientifically. Those who did know him realized well his sound judgment and sterling character.

Foremost among the present needs of the Schools of Mines, Engineering and Chemistry is that of placing more clearly before young men looking forward to engineering and those who advise them, the facts in regard to the unusual advantages offered here

Campaign of  
Information

at the present time, and the way to prepare for availing themselves of these advantages. In developing our present curriculum and requirements we have undertaken to put engineering education on a higher plane. This is not to be accomplished merely by any requirement of two more years in college or engineering school before the student is awarded a degree, but only by a definite and clearly defined program of education which essentially involves departures from the usual content of college and engineering curriculums. A most important feature is that along with his study of the humanities in college the student who is preparing to enter here must lay the foundation for his scientific work in a thorough study of mathematics, general physics and chemistry to an extent beyond that to which the average college student goes. To do this he must usually begin to shape his choice of studies towards this end from his freshman, or certainly from his sophomore year. Hence, if on coming from his college to Columbia to study engineering he is to be prepared for admission, he must receive information and act upon it early in his college course. In Columbia College this is all beautifully taken care of, but the task of reaching early in their course students in colleges all over the country who may later wish to come to Columbia is not an easy one, yet it appears to be an unavoidable one if we are to make the opportunities at Columbia available to the right kind of students from other institutions. The agencies through which information and advice as to the Columbia engineering course and preparation for it may be extended to students seem to be two: first, the practicing engineers of the country to whom young students or their



parents naturally turn for advice, and among these practicing engineers our own alumni in particular; second, members of college faculties throughout the country, particularly those in scientific subjects. At the same time no opportunity should be lost to inform the general public of what we are doing. With the emergencies of the war and the year following its close out of the way, attention should be given to devising an effective plan for spreading information about our work.

One of the most notable recent developments in the engineering schools is a tendency to become more closely associated with the industries through the development of cooperation for purposes of instruction and more especially through the development of research work in the schools on scientific problems related to industry. The Schools of Mines, Engineering and Chemistry have been active in this work, but there are obvious opportunities for much larger development, conditioned only upon the acquisition of the additional laboratory space and equipment and the employment of the additional personnel required. In the present year offers of support of research by corporations have had to be turned down on account of the fact that there was no laboratory space in which the research could be carried out. A new building entirely for laboratory purposes is something that will clearly be necessary very soon unless our development in this direction is to be checked. The Departments of Chemistry and Chemical Engineering are already greatly cramped in their work. The Testing Laboratory of the Civil Engineering Department needs additional room, and the laboratories of both the Mechanical and Electrical Engineering Departments are no more than adequate for what is being done in them at the present time.

The laboratories of every department could use with great advantage additional equipment. The Department of Mechanical Engineering has a definite list of machinery and apparatus which should be in the possession of the University for carrying on the type of work that its high standards look forward to, amounting to \$75,000, of which the Trustees were able in the past year to supply only \$25,000. Any acquisitions

towards the completion of this list would be highly desirable whether through gifts of money or through gifts of the machinery itself. Other departments have corresponding needs although perhaps not so great in amount as the Department of Mechanical Engineering.

Since the discontinuance of the School of Mines Quarterly for lack of financial support there has been no suitable channel of publication for much of the work done in the departments of the Schools of Mines, Engineering and Chemistry. Publication Either the School of Mines Quarterly should be revived or some better scheme should be instituted for publishing under the imprint of the Schools of Mines, Engineering and Chemistry the large amount of educational and scientific work which is continually coming from faculty, students and alumni. Almost every other engineering school publishes its work in a series of bulletins or in a journal. Whatever is done in the Engineering School should be done as part of a general University plan for publication.

Additional scholarships and loan funds would be of great advantage to the Schools of Mines, Engineering and Chemistry at the present time. For the present year Aid to  
Students two \$250 scholarships in addition to those regularly offered were constituted from the gift for the purpose by Mr. A. P. Van Gelder, Ph.B. (Chem.) 1896. In the opinion of many, loan funds constitute an even more desirable means of student aid than scholarships. The Class of '79 Loan Fund and the Class of '87 Loan Fund are administered in such a way that they are increasing in amount and their existence has meant to many students the difference between going straight ahead with their courses or having to drop out and earn money to return on. Our tuition charges and the cost of living in New York City as compared with the corresponding expenses at many of the large and well-equipped state universities make it almost imperative for us to enable any deserving and promising student to assist himself financially.

Respectfully submitted,

GEORGE B. PEGRAM,

June 30, 1920

Dean

# FACULTIES OF POLITICAL SCIENCE, PHILOSOPHY AND PURE SCIENCE

## REPORT OF THE DEAN

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR:

As Dean of the Faculties of Political Science, Philosophy and Pure Science, I have the honor to submit the following report for the academic year ending June 30, 1920.

The total registration under these faculties, including the Summer Session of 1919 and students registered primarily under other faculties, was 1,825, a gain of 44.6 per cent over the preceding year. The registration for the Winter and Spring Sessions alone was 1,249, a gain of 61.3 per cent. Of the 1,249, 619 were new students. The number of degrees conferred was as follows: Master of Arts, 403; Doctor of Philosophy, 69. The corresponding figures for last year were 241 and 52. The gain in registration is substantial and gratifying. The figures are now higher than they were in 1917-1918, although not so high as they were in 1915-1916, in which year registration under these faculties reached the highest point yet attained. The figures for the current year would be still higher if they included the students registered primarily under the Department of Extension Teaching who, because of the limited amount of work they are doing or because of the hours more convenient to them, have found it to their advantage to register under that department. The number of such students is, I believe from inquiries I have made, increasing. It would be desirable for statistical purposes if their exact number could be ascertained.

In former reports I have called attention to the needs of a considerable body of students who come to the University to pursue graduate studies but who lack the requisite academic preparation. Provision University  
Undergraduates has now been proposed for them by action of the University Council and the cooperation of Barnard College, whereby the status of University Undergraduate will be created, provided the action of the Council is finally approved by the Trustees of the University. By the terms of this provision, the men involved will be under the supervision of a committee of the University Council and the women will be cared for by Barnard College. When these students have completed a course of study equivalent to a standard college course, they will, after at least one year's residence in the University, receive an appropriate bachelor's degree. In this way justice will be done to these students. The significance of the plan adopted by the University Council is, however, much wider than this. It provides a generous opportunity for mature students who have decided upon graduate studies, to come here to complete their preparation for them without being forced either to surrender a bachelor's degree altogether or to delay their preparation by satisfying first our own prescribed studies for the degree of Bachelor of Arts. Our colleges within the University would thus be left free to make the requirements for their degrees such as in their judgment they deem wise in the interest of their own integrity and solidarity, and the University would be left free to accept undergraduates for whom, in view of their previous studies and future work, a different provision is both wise and justified. The consequence of creating the status of University Undergraduate for the Faculties of Political Science, Philosophy and Pure Science would be, I am confident, to attract here increasingly many students whose intellectual interests have matured and who realize the importance for their work of the equipment of a university.

The relations between the work of these faculties and the Department of Extension Teaching grow more intimate and important each year. They illustrate admirably the

distinction, frequently noted in these reports, between the two primary obligations of a university, that of maintaining advanced public instruction and that of promoting research. There is no rivalry between these two obligations. They supplement and support each other. The obligation of public instruction is met, so far as these faculties are concerned, by offering general courses, open to the public, which set forth the progress of knowledge and its bearings on civilization and the happiness of mankind. The persons best qualified to do this are to be found naturally among those experts who have devoted their lives to research. It is they who have something worth while to say, and it is they whom the public ought to be able to hear. An examination of the announcements of these faculties and of the Department of Extension Teaching for the past few years shows a steady increase in courses of this character. When grouped together, they constitute a significant and impressive offering. But they are not so grouped and access to many of them is still restricted by the requirements for registration under these faculties. In other words, what the University is prepared to offer in the way of public instruction is rendered less effective than it should be by an administrative tradition: Extension Teaching—a department most unfortunately named in view of the character of its work—is supposed to care for courses of a public nature outside of the regular hours, and these faculties are supposed to confine their work to the regular hours and to the needs of candidates for degrees. There are, in addition, financial considerations affecting the general administration and the salaries of the staff that complicate the situation. The whole subject of advanced courses in Extension Teaching is, in my judgment, worth a fresh study from the broad outlook of the University's position in the city. The immense public at our doors has needs and aspirations which impose upon us an obligation equal to that of maintaining scholarship within our walls. As the experience of Extension Teaching shows, this public is ready to respond to the best that the University can offer. It is ready to pay

and support. In the closer affiliation of part of the work of these faculties with the Department of Extension Teaching, I can see an opportunity of enlarging our usefulness and our resources.

In such a proposal I foresee no danger to the special work with which these faculties are charged, namely, promoting research and caring for candidates for the advanced degrees. The courses to which I have referred are of the type which should largely compose the satisfaction of the residence requirement of a candidate for a degree. They give him the opportunity to become acquainted with the field of scholarship at large, and thus support and illumine his special researches. They are not and should not be the courses in which he receives his discipline and training. They are not and should not be courses which require personal supervision over students on the part of the instructor. The proposal I am making need have no other effect than to enlarge the clientele for whom these courses are available without imposing new burdens on instructors or interfering with the work of candidates for degrees.

The primary obligation of these faculties is, however, the promotion of research. To this obligation their members are keenly alive. The body of students with which we have to deal has not, as a rule, Research and the  
Student Body received in the colleges from which they come the kind of education which makes for scholarship of a high character. It is not unfair, I think, to say that the colleges of the land have been far more interested in developing in students certain moral traits and a general outlook upon life than they have been in laying a solid foundation for the support of the nation's scholarship or of productivity in science, literature, and art. The students are eager and earnest, but have rarely attained intellectual mastery, independence, and initiative. They too frequently come to graduate studies without having first mastered the preliminary and readily accessible data of the subject of their choice. To meet this situation, graduate faculties have too often resorted to tutorial methods or set students to work upon some highly

specialized research while neglecting the latter's scholarship. The results have not been good. A body of students in the graduate school who have attained intellectual independence and initiative is necessary if high scholarship is to be maintained. To assist in securing such a body of students, departments under these faculties are insisting more and more upon preliminary and thorough subject-matter examinations. While an acceptable bachelor's degree entitles a student to register under these faculties, it will rarely secure his acceptance by a department as a candidate for a degree. In order to become a candidate, he must show by a general examination or some equivalent test that he has the proper preparation. He is expected to prepare himself independently for the examination. Courses are offered which will assist him. Course credits will not, however, be accepted as alone sufficient, for the examination is designed to be a test of the student's mastery and independence in his chosen field. As a consequence, course credits are ceasing to be given at all in several departments and students are acquiring independent habits and methods of study. The better students welcome the change as an emancipation from the routine of undergraduate days. They select their courses as guides to independent work rather than as opportunities to amass credits toward a degree. The instructors are relieved from routine teaching to devote their time to their own researches and to the care of accepted candidates.

By such methods the idea of passing courses is replaced by the idea of sound scholarship. They lead to a reduction in the number of courses which would be necessary if tutorial methods were followed, and to an increase in real investigation. This means an increase in facilities for research. When so much of the time of these faculties was occupied in teaching candidates what they ought to know before becoming candidates, attention was paid more to "covering the field" than to provision for investigation. Courses were multiplied and these faculties enlarged by those who gave them rather than by scholars of attained eminence. There is now need of important additions to the professorial staff and the adop-

tion of a plan whereby such additions may be made to the advantage of these faculties as a whole. On this matter it is my expectation that the committees on instruction will have specific recommendation to make in connection with the budget for 1921-22.

The regular work of these faculties, the division of knowledge into various departments, and the individual interests of members of the staff define general and obviously recognized lines of research. But there are special researches which the University might profitably undertake and is frequently asked to undertake, to which attention should be given and for which more adequate provision should be made. There are now in progress important researches which the University has been asked to undertake by outside scientific and industrial corporations. These corporations furnish the funds and set the problems, but leave the University free to conduct the research in its own way. One corporation provided \$6,000 for the first year, and was so gratified by the results that it increased the fund to \$10,000 for the second year. The possibility of researches of this kind is large and attractive. They are stimulating and keep the University in active touch with current economic, social, industrial and manufacturing problems. The Special Committee on Research has been studying ways and means by which some effective organization may be given to researches of this kind. The work of the Committee would be greatly assisted if some officer of the University could be freed from part of his regular duties to prosecute the inquiries necessary for substantial progress.

In this connection I transmit to you a plan for a psychological institute, prepared by members of the Department of Psychology. It sets forth some of the demands already made upon the Department for researches of a special kind and also the vast field of inquiry and service which recent developments in applied psychology have opened. Such an institute as is proposed ought to be established. It would not only render a great public service, but would also advantageously supple-

Special  
Researches

A Psychological  
Institute



ment the regular work of the Department. The initial expense would be heavy, but interest in the matter is so substantial that the plan should readily find supporters. When once established, the institute would be largely self-supporting. In this respect experience has already shown that those who reap the benefit of such an institute are ready to provide means for its maintenance. I hope an early opportunity may be afforded to consider this proposal in conference with those immediately interested.

Akin to the preceding is the proposal made in a former report of an oriental institute to be started with a revival of the Department of Chinese. The committee which you appointed to consider the matter has made inquiries regarding competent scholars to undertake the work. It would not be difficult to find a professor of the Chinese language and literature who would build up a department of the conventional kind. Nor would it be difficult to find an educator familiar with China who is interested in the educational problems which oriental students in the University present. But, as I pointed out in the report referred to, important as are provisions for the study of the Chinese language and literature and for the proper care of oriental students, they are quite subordinate to the more important provision for a center of sound information about oriental affairs, political, economic, social, historical, and philosophical. Our relations as a nation with the Orient are destined to be intimate and far-reaching. The lands of the Far East are no longer mainly fields for the message of the missionary or the exploitation of the merchant. They are the sources of a new and little understood influence on civilization. It is from the point of view defined by this fact, that we should regard the whole problem of oriental studies in the University. Here should be established a center of information so unbiased and so free from sentimentality that it would afford a trusted medium of friendly relations. There are many who appreciate the importance of such a project, but the committee has as yet been unable to find the man with knowledge and experience to act as the leader of it.

An Oriental  
Institute

The committee will continue its inquiries and hope to make its next report one of substantial progress. So far as the Chinese language is concerned, successful courses are now given under the Department of Extension Teaching and further provision can be made through the same agency as occasion arises.

In my report of last year I called attention to the re-organization of the work of the Faculty of Political Science carried out by its Committee on Instruction under the chairmanship of Professor McBain. In connection with what this committee has accomplished, there should be considered the important report of the Faculty of Philosophy prepared during the current year by its Committee on Instruction under the chairmanship of Professor A. H. Thorndike. This report deals not only with matters peculiar to this faculty, but also with matters of general university policy and the relations of the three non-professional graduate faculties to one another. After having been generally circulated among those interested, the report is now in the hands of a special committee of the Joint Committee on Instruction. Its most far-reaching proposals are those affecting the budget and the appointment of professors, and the union of these faculties in a single organization. These are the subjects which will elicit the greatest interest and discussion. The proposal to distinguish more effectively than is now done in the budget and the appointment of professors, between permanent positions necessary to maintain the established work of the University and those arising from temporary and fluctuating demands, and to establish the former on the basis of permanent income, is one which our recent financial and educational experience makes most timely. The proposal to unify these three faculties in a single organization, although not new, is revolutionary. It provokes Sir Roger de Coverley's comment. The work of the committee has, however, already indicated that even if the proposal is not carried out in its radical form, there is possible an increased unity in administration and a more effective coordination of the various departments

Faculty of  
Philosophy  
Report

with one another. Our present faculty divisions do not represent sound scholarly and scientific divisions. To overcome needless and unfortunate separations and to further the work of professors whose interests ought not to be restricted by faculty limitations, some reform is urgent. The problems raised by the Report of the Faculty of Philosophy will be the principal subjects of discussion during the coming year.

The establishment of the Advisory Committee on Educational Policy has resulted in marked improvement in the making of the budget. Still greater improvement could be made, I think, if the departments were uniformly advised to confer with the Committee before putting their recommendations into formal shape. It is sounder policy for the Committee to discuss proposals with the departments with a view to reaching mutually satisfactory conclusions than to appear to act as judges on the merits of recommendations after they are formally made.

Reviewing the work of the year as a whole, I am led to say that the effect of the war on our methods and practices has as yet been inconsiderable. Perhaps it is too soon to judge. Yet the University, like the world, seems to be pretty much the same sort of an affair after that it was before. Perhaps this is natural. Perhaps it is an indication of health. For war is abnormal both in the passions and the aspirations it engenders. We can not be sustained on the heights by bursts of enthusiasm, but can keep our place there only after steady climbing. In the light of this philosophical reflection, the year's work may be viewed with satisfaction. Our normal duties have been resumed with energy and confidence. We seem to have been at home again and happy with the thing we have had to do, to take up again the task of making intelligence prevail.

Respectfully submitted,

FREDERICK J. E. WOODBRIDGE,

*Dean*

# SCHOOL OF ARCHITECTURE

## REPORT OF THE DIRECTOR

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR:

As Director of the School of Architecture I have the honor to submit the following report for the academic year ending June 30, 1920.

There were regularly registered in the School during the year 52 candidates for the degree of Bachelor of Architecture, 16 candidates for the Certificate of Proficiency in Architecture and 1 candidate for the degree of Master of Science. In connection with registration figures it should be borne in mind that all special or non-matriculated students now appear in the Extension list and that there is offered in Extension Teaching a course leading to the Certificate of Proficiency.

Registration in accordance with the foregoing may be summarized as follows:

|   | 1919-1920 | 1918-1919 |
|---|-----------|-----------|
| Candidates for the Degree of Bachelor of Architecture . . . . . | 52        | 30        |
| Candidates for the Certificate of Proficiency . . . . .         | 16        | 8         |
| Candidates for the Master of Science Degree . . . . .           | 1         | 2         |
| Combined Course students . . . . .                              | 16        | 9         |
| Extension Teaching students . . . . .                           | 150       | 57        |
|   | <hr/>     | <hr/>     |
|   | 235       | 106       |

The total number of graduates of the School at Commencement was as follows:

|   |       |       |
|---|-------|-------|
| Bachelor of Architecture . . . . .          | 7     | 5     |
| Certificate of Proficiency . . . . .        | 6     | 5     |
| Master of Science in Architecture . . . . . | 1     | 0     |
|   | <hr/> | <hr/> |
|   | 14    | 10    |

In the course of the year there were submitted a total of 368 problems of all grades in design; the classification and awards as compared with the last preceding year are as follows:

| <i>School</i>                      | 1919-1920 | 1918-1919 |
|------------------------------------|-----------|-----------|
| Major problems submitted . . . . . | 144       | 127       |
| Minor problems submitted . . . . . | 112       | 53        |
| <i>Extension</i>                   |           |           |
| Major problems submitted . . . . . | 77        | 6         |
| Minor problems submitted . . . . . | 35        | 2         |
|                                    | <hr/> 368 | <hr/> 188 |

|                                      |     |     |
|--------------------------------------|-----|-----|
| <i>School</i>                        |     |     |
| Percentage of passing                |     |     |
| Major problems . . . . .             | 78% | 91% |
| Minor problems . . . . .             | 49% | 52% |
| Problems commended                   |     |     |
| Major . . . . .                      | 20  | 18  |
| Minor . . . . .                      | 2   | 2   |
| Medals awarded on problems . . . . . | 10  | 3   |

The students, besides doing the regular problems issued by the School, participate in competitions for prizes given under the direction of the Beaux-Arts Institute of Design. The following schedule records the results for the current year:

*Prizes—School of Architecture*

|  |              |
|--|--------------|
| Harry Allen Jacobs Prize Competition . . . . . | 3rd Prize    |
| Paris Prize—1st preliminary . . . . .          | Placed Third |

*Prizes—Extension Teaching*

|                                       |           |
|---------------------------------------|-----------|
| Municipal Art Society Prize . . . . . | 1st Prize |
| William Emerson Prize . . . . .       | 1st Prize |
| Pupin Prize . . . . .                 | 4th Prize |

The result of the competition for the McKim Fellowship was as follows:

|                             |                   |
|-----------------------------|-------------------|
| Competitors . . . . .       | 13                |
| Winner . . . . .            | Samuel Oxhandler  |
| Honorable Mention . . . . . | D. A. Fletcher    |
|                             | Donald G. Mixsell |
|                             | K. C. Chang       |

Other awards were

|   |                   |
|---|-------------------|
| Alumni Medal . . . . .                            | J. A. Takakjian   |
| American Institute of Architects' Medal . . . . . | Donald G. Mixsell |

Two Fellowship prize winners, Joe Hunter McDonnell of 1916-1917 and Edwin Jerome Robin of 1915-1916, made their journey through Great Britain, France and Italy, according to an itinerary arranged by the administration, and have submitted satisfactory reports and drawings. During their stay in Italy they received the hospitality of the American Academy in Rome of which Columbia is one of the supporters.

In addition to the work in design, as carried out in drawings, the making of models has been developed into a systematic part of the course. One problem each year is first developed in the usual way by drawings illustrating the general solution. After these are judged the students are divided into teams, each working under a captain. The illustrative drawings are then carefully copied out in every detail on paper mounted on strong cardboard which is then cut to the outlines thus furnished and accurately joined together into a model representing in miniature the completed building. Students are thus taught thoroughness in studying the building "in the solid," as well as accuracy in constructive drawings.

The work of the School centers and culminates in design. The quality of design produced, therefore, measures the success of the instruction given.

The method of teaching design is not comparable with instruction by lecture courses and quizzes, although these form an important part in the preparation of the student. Design is taught by direct consultation of critic and student at the drawing board, in the manner pursued by all teachers of fine art, and this consumes much of the time and energy of the critics. It is this personal contact with the master that develops the student's strength and individuality. Curriculum

An individual solution of each problem by each student is encouraged, and while certain standards and ideals are insisted upon, the expression of each student's conception is left to himself. Independent thought and self-reliance are encouraged so far as possible, always keeping the work in

design within well-defined limits of reasonableness and good taste.

The standard of the architectural history course in the School was highly commended at the convention of the Association of Collegiate Schools of Architecture and the syllabi as printed by Professor Hamlin have become a standard guidance for history courses throughout the United States. These history courses in architecture are considered the highest type of cultural education, and as such are given prominence in Columbia. As presented they fasten in the memory the forms and character of the architecture of all ages and bring the application of the ideas into daily use in design.

The work in construction has during the year been emphasized more than ever as one of the fundamental requirements in the proper solution of problems in design. These problems and the working drawings illustrating the details of their construction have great significance, since they represent the technique of expression to the workmen who build. They are drawn on tracing linen and are in every way similar to the contract drawings issued from an architect's office.

Construction in its simpler forms contains the essential ideas which govern design in architecture. The simple expression of the post and lintel, of the arch, of the vault, and of the dome conveys to the beholder the ideas of solidity and proper function. The details of the highly complicated engineering necessary for the modern structure can rarely be expressed or revealed consistently with good architectural design.

In order to give beginners the correct ideal they are made familiar with the elementary forms of construction in an endeavor to express these in the simplest designs. By the methods of teaching now pursued the student designs a buildable and honest structure with better expression than when the conception is one of the decorative form first with little thought of function. By degrees the student is led along to the mastery of more highly technical construction,

but he never looks at engineering as a thing apart from architecture. Masses of steel fabric become as pliant and obedient to his conception of the design as are bricks and mortar. He is taught to use engineering as the instrument or means of realizing the architect's conception rather than as the source from which the idea springs. These ideas which governed the conception of the great masters of the past are the ideas on which the course in construction is founded.

Modeling in clay to familiarize the student with the actual forms of ornament is an important part of the education of an architect. If, however, the inspiration of beauty of form be imparted with this technical training, the instruction becomes doubly valuable. In the hands of Mr. John Gregory, a professional sculptor of distinction, the class in modeling is a class in fine art, producing work of character and beauty.

There is a distinct tendency, shown by registration, to classify this as a graduate school of design. Students from other excellent schools of architecture, having a good preparation in the elementary and scientific studies, come to Columbia to study design because of our superior equipment to teach the art of architecture.

It is desirable to have graduate students who specialize in design after the thorough preparation of previous years in our own School for they can then devote their entire attention to perfecting themselves in the art of architecture.

The Committee on Education of the American Institute of Architects, after years of exhaustive study and reports on architectural education, gave as the most important change in the present system, the addition of one year to the courses in many schools, making the professional course one of five years instead of four. It is sound policy and we encourage its adoption, having in mind the use of the major part of this additional time for work in design.

An important advance made in the equipment of the School is the establishment of a construction laboratory adjoining the drafting room. This will be used for the first time next year and it will serve both as a class room for lectures in construction and as a



museum for building materials. It is hoped that a more intimate feeling for construction will be given to the students with the many new devices which have been established for teaching construction in this laboratory.

Adjoining this construction laboratory is a small office which has been fitted out to accommodate the critics in design.

The office in room 409 Avery Hall has been changed from the construction office into a classroom for general use and contains twenty-three seats.

Owing to the increase in registration in the various drawing courses it has been found necessary to partition off part of our exhibition room (room 505) to form a temporary drawing room and to place therein drawing tables for students in these courses.

During the year 1919-1920 the General Library undertook to catalog all books in the Departmental Library in room 402, by this arrangement making the books more available to students. Professor Hamlin undertook the difficult task of arranging the collection of about 15,000 photographs, of which he has now almost completed the cataloging, indexing and classification in the drawers of that library. The lack of available competent assistance except at exorbitant cost has greatly hampered this important work, compelling Professor Hamlin to perform tasks which formerly could have been assigned to temporary assistants.

To the collection of cast and lantern slides minor additions were made in the course of the year. A great deal of work has been done in the way of repairing, relabeling and renumbering certain parts of the slide collection which has outgrown the original space allowance.

It is desirable that a permanent record of the best designs be kept for reference and comparison, and to that end a system of filing photographs of these drawings in booklet form of convenient size has been established. By this method much space now used for the storage of drawings can be used to better purpose.

Mr. Richard Franz Bach who served the School ably as curator for many years resigned during the term. The title curator was abolished and Mr. H. Vander-voort Walsh was appointed Secretary under Administration whose conduct of affairs the School administration has been carried on with harmony and efficiency.

Mr. William B. Dinsmoor, former architect to the School of Classical Studies, Athens, Greece, has been appointed Librarian of the Avery Library and assistant to Professor Hamlin in the teaching of certain history courses.

The teaching staff in general are practitioners of the arts they teach. It is evident that an architect who is solving actual modern problems successfully is qualified to give sound criticism and counsel to a student. The same is true of a decorative artist and a sculptor. The men who compose the faculty of the School of Architecture are such a body working with enthusiasm to build up a sound, fine tradition in Columbia. The spirit of devotion and cooperation is admirable and merits a worthy recompense:

During the year special lectures were given by prominent architects and painters on various phases of decoration and a number of subjects directly connected with architectural design and practice. The lecturers were as follows: Messrs. Charles A. Platt, Whitney Warren, J. Monroe Hewlett, Horace Moran, Cass Gilbert, Professor Dow, Joseph Lauber, William B. Dinsmoor, Ernest Flagg. Lectures

The Committee of Visitors has shown as in previous years cordial sympathy with the School and the desire to cooperate with it. On the occasion of the last judgment twenty-eight were present on the jury of award. Visiting Committee

In general the equipment is sufficient for the purpose. There are, however, certain needs which have not been met in the past, and which caused a real hardship in our progress. Needs of the School

The School has no means of public expression in print which can illustrate the work done by students. Formerly an annual publication of adequate size and style, largely financed by advertisements of building concerns and

materials, was published each year by the graduating class. This custom was abandoned upon the advice and counsel of the University Administration. Since that time, through the cooperation of the Alumni News and the Secretary of the University, we were enabled to publish a special architectural number of the Alumni News, but even this was abandoned because of lack of finances. No publication was possible the past year, although much admirable material was prepared for it, because no funds were available for the purpose. An annual appropriation of adequate size should be made for such a publication and the administration of it by the Secretary of the University would make it effective.

At present there is no room fitted for the work in modeling. The class works in a general storeroom. It is practicable at a small expense to construct a partition in the store-room in the basement and thus provide a proper room for this important class.

When the beautiful church on Madison Avenue and 24th Street was demolished Mr. Lessing Williams secured for the School two sections of colored terra cotta cornices which were masterpieces by the late Stanford White. These fragments now lie in the basement of Avery Hall waiting for an appropriation of two or three hundred dollars to erect them as examples of artistic terra cotta of American creation. An appropriation for this work is recommended.

The number of students taking design makes it necessary to employ another critic in design, and the need is for a man of marked ability. Provision for such an addition should be arranged in order that sufficient time may be available to secure such an assistant.

Respectfully submitted,

WILLIAM A. BORING,  
*Director*

*June 30, 1920*

# SCHOOL OF JOURNALISM

## REPORT OF THE DIRECTOR

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR: .

I have the honor to submit the eighth Annual Report of the School of Journalism.

The registration at the beginning of the academic year 1919-1920 was as follows:

| 1919-1920                | Matriculated |       | Non-Matriculated |       |
|--------------------------|--------------|-------|------------------|-------|
|                          | Men          | Women | Men              | Women |
| First Professional Year  | 46           | 25    | 2                | 0     |
| Second Professional Year | 24           | 17    | 1                | 0     |
| <i>Totals</i>            | 70           | 42    | 3                | 0     |

Of the total number registered at the beginning of the Winter Session (115), 23 were either transferred to other parts of the University or left before the opening of the Spring Session—9 men and 13 women in the First Year, and 1 man in the Second Year, leaving in the School at the end of the Winter Session 60 men and 29 women matriculated. There were 5 men and 3 women newly registered at the beginning of the Spring Session—all matriculants—making the net total of students in the School at the end of the University year 65 men and 32 women matriculated, 3 men non-matriculated. Of the Second Year students 35 (18 men and 17 women) graduated at the end of the year.

These figures show a substantial increase on the previous record of the School. In 1918-1919 there were 65 students registered, and of the 22 in the Second Year, 20 graduated, 9 women and 11 men. In 1917-1918 there were 76 students

registered, and of the 26 Second Year students, 19 graduated, 11 women and 8 men. In 1916-1917 there were 63 students registered in the two years, and of the 31 in the Second Professional Year, 26 graduated, 21 men and 5 women. These were War years, and that fact had its influence both on the number of students and the number of graduates, but the following figures show that in both respects this year marks the highest record of the School since its foundation:

|           | Second Year<br>Students | Graduates |       |       |
|-----------|-------------------------|-----------|-------|-------|
|           |                         | Men       | Women | Total |
| 1912-1913 | 14                      | 9         |       | 9     |
| 1913-1914 | 28                      | 13        | 2     | 15    |
| 1914-1915 | 22                      | 22        |       | 22    |
| 1915-1916 | 25                      | 18        | 6     | 24    |
| 1916-1917 | 31                      | 21        | 5     | 26    |
| 1917-1918 | 26                      | 8         | 11    | 19    |
| 1918-1919 | 22                      | 11        | 9     | 20    |
| 1919-1920 | 43                      | 18        | 17    | 35    |

Not only was the graduating class the largest in the history of the School, but the number entering the First Professional Year was larger than ever before. In 1912-1913, the number was 16; in 1913-1914, 16; in 1914-1915, 41; in 1915-1916, 36; in 1916-1917, 32; in 1917-1918, 50; in 1918-1919, 40. The First Professional Year in 1919-1920, 79 in all, included 50 men and 29 women as against 19 men and 21 women of the previous year. Of these, 23 men entered from Columbia College, 7 women from Barnard College, 2 women from Extension Teaching, in all 32 from within the University; the remaining 47 had received their collegiate training in various institutions, scattered all over the country, including the University of Alabama, the University of California, the University of Chicago, Iowa State University, University of Kansas, Northwestern University, Princeton University, Reed College (Oregon), University of South Carolina, Yale University and others.

Of the 115 students registered at the beginning of the year, 30 reported their home residence as in New York City, and 8 in other parts of New York State. The remaining 77 came from the following parts: Alabama 2; Arizona 1; California 1; Colorado 2; Connecticut 2; District of Columbia 2; Florida 2; Georgia 2; Idaho 1; Iowa 3; Kansas 2; Kentucky 1; Maryland 2; Massachusetts 4; Michigan 1; Minnesota 1; Mississippi 2; Missouri 4; New Jersey 8; North Carolina 2; Ohio 7; Pennsylvania 5; South Carolina 3; South Dakota 1; Texas 3; Virginia 3; Washington 1; Wisconsin 1; Wyoming 1; Newfoundland 1; Canada 2; Russia 1; Norway 1; Beirut, Syria 1; Philippines 1.

It is evident that the constituency served by the School is national rather than local, and that the policy, adopted in 1917, of facilitating collegiate preparation away from New York City, has had an encouraging response.

The increase in the number of students entering, from 65 to 115, presented an immediate problem of instruction. Both the First Year and the Second Year classes were too large to be taught by the existing staff except in lecture courses, which are not suitable for technical training and the criticism of written work. The problem was complicated by the retirement of Dr. Talcott Williams (now our honored Director Emeritus) and the absence on leave of Professor Pitkin during the Spring Session. The remaining staff responded generously to the immediate need, and additional professional help was promptly secured. Professor Charles P. Cooper, in charge of the technical instruction in the final year, divided the class into three teams—one working under his personal direction, the other two under the direction of Mr. Carl Dickey and Dr. A. S. Will, who were appointed Associates in Journalism. Dr. Harold de Wolf Fuller divided the Editorial course with Professor Roscoe C. E. Brown. Mr. Walter P. Eaton looked after the class in Critical Writing. In other courses, assistance was given by Mr. Geo. A. Hough, Jr., Mr. David S. Levy, Mr. M. S. Rukeyser, and Mr. Alan H. Temple, all graduates of the School. In this way the efficiency of our carefully devised methods of teaching was

maintained, and the newly appointed members of the staff have cooperated zealously and harmoniously with their senior colleagues. The student body, which was almost entirely new to the School, proved to be excellent in intellectual calibre and professional spirit, and it is the judgment of the older members of the teaching staff that the year has been one of the most satisfactory in the history of the School.

In connection with this re-organization of the courses, the opportunity was taken to bring Professor Clare M. Howard, adviser of Women Students in Journalism, into closer contact with the work of the School. Miss Howard now takes a share of the teaching in Dr. Slosson's course, and the new arrangement has proved successful alike from the point of view of instruction and that of administration.

Apart from the adjustment of the teaching staff to an enlarged body of students, the year has been uneventful. The unrest which characterized the years of the War disappeared quietly, without leaving noticeable traces, and work went on smoothly, excellent relations prevailing between teachers and taught, who were united in the effort to attain the aims all had in view. The increase in the number of graduates caused some apprehension as to whether suitable places could be found for them, but this proved to be a groundless fear, as the applications for the services of graduates of the School increased in still greater proportion, and the average rate of pay, as compared with previous years, more than doubled. This consideration is of importance, not only to the young people entering the profession of journalism, but to the public whom they are to serve. The budding journalist is seldom deficient in idealism; he has a sincere liking and often an unconquerable enthusiasm for the profession he has chosen; but if he is insufficiently paid, he has difficulty in retaining the respect of the public and his own self-respect. The salaries paid to "cub" reporters in the past were justifiable only on the ground that they were apprentice rates; and educated young people who have received training in a professional school have reason to feel that their services are worth a more adequate recompense than used to be the case a very few years ago. The contrast

with the wages paid to workmen in skilled or half-skilled trades would have been distressing but for the recent advance in commencing salaries in newspaper offices. While this advance was necessitated by the increased cost of living, and in part offset by it, it is none the less gratifying to record that the situation is more encouraging than it has been for many years. The public is beginning to realize the importance of having news obtained by educated and responsible reporters; the ascertainment of fact, which becomes more and more the office of the modern newspaper rather than the guidance of opinion, is seldom an easy task, and the increasing complexity of our civilization makes it more and more difficult.

While it is the most immediate task of the School to give its graduates a good start in their professional career, its ultimate duty extends far beyond this comparatively simple problem. It aims at giving them, along with competent technical training, instruction in fundamentals which will enlarge their outlook and ripen their judgment. Only thus can they be fitted, as they grow older and more experienced, to take advantage of such opportunities as may be offered to them of assuming more responsible and influential positions in the newspaper world. In pursuing this course, the School has undoubtedly carried out the intentions of Joseph Pulitzer, whose ideas as to the curriculum were extraordinarily far-seeing and broad-minded. It is hoped that as the School grows, it may develop further the plans for graduate instruction which were projected in 1916-1917 and were interrupted by the War. The increased registration during the year just concluded made it necessary for the members of the staff to concentrate their energies on undergraduate instruction, at any rate for the time being; but they have not relinquished the hope that enlarged provision may be made for more advanced professional study in combination with the courses on subjects allied with journalism which are offered by other departments of the University in exceptional richness and variety.

Respectfully submitted,

J. W. CUNLIFFE,

*Director*

*June 30, 1920*



# BARNARD COLLEGE

## REPORT OF THE DEAN

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR:

I have the honor to submit the following report on the condition and progress of Barnard College during the academic year 1919-1920.

The enrollment in our four regular classes has been as follows:

|                      | 1918-1919  | 1919-1920  |
|----------------------|------------|------------|
| Seniors . . . . .    | 102        | 87         |
| Juniors . . . . .    | 167        | 190        |
| Sophomores . . . . . | 161        | 193        |
| Freshmen . . . . .   | <u>234</u> | <u>224</u> |
|                      | 664        | 694        |

Besides the regular students, we have had thirty-nine matriculated specials as compared with twenty-nine last year, and twenty-two non-matriculated specials, the same as a year ago. The total number primarily registered in Barnard College has been 755, an increase of forty over the figures of the preceding year, and the largest total we have ever had.

The number of students coming to Barnard from other parts of the University has again increased, since we are no longer feeling the effects of the War. We have had thirty-eight from Teachers College and eighty from the other faculties of Columbia University, as compared with thirty-three and eighteen respectively a year ago. Our total registration has thus been 873, an increase of 107 from the preceding year.

An interesting and welcome member of our community during the past year has been the first holder of the Rose Sidgwick Memorial Fellowship, established by American women in memory of Rose Sidgwick of the British Educational

Mission which visited the United States in the autumn of 1918. Miss Gladys Boone, the Fellow, from the University of Birmingham, England, has been doing graduate work in Economics at Columbia University and living in Brooks Hall, where her association with our undergraduates has helped very pleasantly to promote Anglo-American acquaintance and friendship.

During 1919-1920 we have recommended to the University for the degree of Bachelor of Arts one hundred and thirty-nine students, and for that of Bachelor of Science five, making a total of one hundred and forty-four. Of these candidates, two received the degree *magna cum laude*, and nine *cum laude*.

The College has lost one of its best friends in the death of the Clerk of the Board of Trustees, Frederic B. Jennings, who died on May 26. Mr. Jennings had been a member Trustees of the Board since November, 1900, and its Clerk since December, 1910. He had taken a deep interest in Barnard's affairs, and the meetings of the Board and the Executive Committee owed much to his thoughtful intelligence and experienced judgment. The Board has lost another valued member through the resignation of Mrs. Gino C. Speranza (Florence Colgate, 1895), who has been obliged to give up serving as Trustee because of absence from this part of the country. Elected first as Alumnae Trustee, Mrs. Speranza was made a permanent member of the Board on the expiration of the four-year term. Until prevented by bad health and absence abroad, she did much active work for Barnard, especially in the first organization of our lunch room as a regular part of the College administration. Mrs. George McAneny's term of office as Alumnae Trustee expired during the past year, and the Associate Alumnae elected in her place Mrs. Alfred F. Hess (Sara Straus, 1900).

Our work in Economics and Social Science has been in charge of Professor William F. Ogburn during the past year. We have been most happy to welcome him as a new Faculty member of our Faculty. We have also been delighted to have Professor Henri F. Muller back after his absence of five years on active service with the French army. Professor

James T. Shotwell has continued his absence on leave during the entire year, and Professor Tracy Elliot Hazen and Miss Mabel Foote Weeks have been away during the second semester. We have deeply regretted the death of Professor Calvin Thomas, who had for many years given a course in German in Barnard College, and played a very influential part in helping to build up our Department of Germanic Languages.

For next year there have been three promotions from the grade of Associate Professor to Professor,—that of Dr. William P. Montague of the Department of Philosophy, Dr. La Rue Van Hook of the Department of Greek and Latin, and Dr. David Saville Muzzey of the Department of History. We look forward with much pleasure to the privilege of having as a member of our Faculty during the first semester of next year, as Visiting Professor of English Literature, Professor Caroline F. E. Spurgeon of the University of London. She will give two courses for Barnard undergraduates, a graduate course at Columbia, and some special lectures at Teachers College.

There has been much active interest in Faculty affairs during the year. At the request of the Faculty a Committee on Constitution and Procedure was appointed by the President, consisting of Professor Richards as Chairman, Professors Knapp, Maltby, Hubbard and Muzzey. After long and careful study this committee presented a report which was adopted with slight amendment by the Faculty. It provided for a more accurate definition of Faculty membership for those professors "on the Barnard foundation" and also those from other parts of the University who come to give courses in Barnard. It makes the Committee on Instruction an elected instead of an appointed body, increases its membership to eight, besides the Dean and the Provost, and makes auxiliary to it the Committees on Honors, Advice to New Students and Schedule of Hours. The new constitution also creates, instead of the former Committee on Student Organizations, a Committee on Student Affairs, which is to have jurisdiction over all extra-curricular matters and also to serve as a medium of informal conference between the Faculty and the students.

Another very important topic discussed at Faculty Conferences has been methods of developing our best students. At present we spend too large a proportion of our time on our worst ones. Indeed, one of the greatest faults of American college education is that it so rarely calls forth the very highest efforts of the really able students and develops them to the utmost of which they are capable. The Faculty has modified our Honors System so as to make it more elastic and throw more responsibility and initiative on the Committee on Honors, which will now have more opportunity to influence the students. Additional methods of stimulating harder and more original work among our able students should be considered in the near future.

Honor  
Students

Closely connected with this problem is, of course, the task of selecting from among the applicants for admission the candidates who show most promise of future ability and usefulness. This is greatly complicated for Barnard by the number of different tests of scholarly preparation which we accept,—the so-called “New Plan” of four comprehensive examinations, the “Old Plan” of examinations in all subjects, the College Entrance Board Examinations, the Columbia University Examinations and the Examinations of the State Department of Education, popularly known as the “Regents.” The fact that we do not receive most of the “Regents” marks until nearly the end of August further complicates our work in choosing the members of our Freshman class. So far as we can, we ought to encourage all the students to enter by the “New Plan” on the Board Examinations; for this method, according to our experience of the past two years, seems to be a good test, and it would enable us to settle most of our cases by the middle of July. We should also study carefully the results of the “psychological tests” used for Columbia College during the past year, and see whether these warrant the adoption by the Barnard Faculty of a similar method.

Admissions

Like most other colleges, Barnard has been weighing carefully, during the past few years, not only the examination marks of the candidates, but also their school records and

all available evidence regarding their health, character, personality and all round promise. Merely passing the entrance examinations does not and should not necessarily admit a student. It puts her on the eligible list. There are, of course, other important qualifications for college work and future usefulness besides the ability to get reasonably good marks in examinations.

Another interesting and difficult phase of the work of the Admissions Committee is presented by the "transfers,"—that is, the students coming from other colleges and admitted to advanced standing. These have recently increased greatly,—numbering during the past year one hundred and five. The immense variety of colleges from which they come and the difficulty of equating their work with ours sometimes lead to our receiving students who make poor records. We should try in future to scrutinize all these even more severely; but we must not discourage "transfers" in general, for they often do admirably with us and form an interesting element in the student body.

Perhaps the most important Faculty discussions of the year were those caused by the proposed plan for "University Under-graduates,"—that is, the establishment of a system whereby men and women could obtain from the University a non-professional Bachelor's degree outside of Columbia and Barnard Colleges. As finally adopted by the University Council the plan excluded women, and it was left to Barnard to try to devise some way of caring for, or helping to care for, the various types of women students involved. The Faculty understands that, according to the agreement between Columbia University and Barnard College and the general plan of organization of the University, Barnard College has the privilege and the responsibility of caring for the undergraduate academic education of women; and it has expressed its willingness to meet the need for education of this sort in the widest possible way consistent with high standards, and to coöperate to this end with the other Faculties and Administrative Boards of the University. To meet for the present the immediate needs of the three classes of women

students with which the plan for University Undergraduates was originally concerned, the Barnard Faculty has made the following suggestions. The "pre-professional" students,—those preparing for the professional schools,—we can continue for the present to care for, as we have been supposed to be doing in the past. For the group which has been called "sub-graduate" students,—that is, those women who hold a Bachelor's degree from a college whose course is equivalent to three years of a standard college course, and who wish to go on for advanced work and also to obtain a standard Bachelor's degree before becoming a candidate for the Master's degree,—the Barnard Faculty will try to devise a one-year course leading to a Bachelor's degree on its recommendation and to eligibility to candidacy for the Master's degree. This course would have to be elastic, and should be administered by some committee which can secure full coöperation between Barnard and the Graduate Faculties. The students in this group are generally mature, interested and deserving, and should certainly receive whatever guidance and aid Barnard can arrange to give.

The third group involved is the body of mature, irregular students who, having begun study in the Department of Extension Teaching, wish ultimately to go on for a degree. Some plan should be worked out whereby Barnard can coöperate with the Department of Extension Teaching so as to give these women a chance to take, in Barnard, such advanced courses as they are fitted to enter, and eventually the opportunity to qualify for a degree through the recommendation of the Barnard Faculty.

Definite solutions of these educational problems must be sought at the opening of the next academic year, and they will require careful study and hard thought. The great size and intricate organization of our University, and especially the vast growth and variety of the Department of Extension Teaching, inevitably give rise to very complicated and puzzling questions of adjustment and development. We must make every effort to broaden the extent of the educational opportunities offered to candidates for an academic Bachelor's degree, while avoid-

ing harm to the undergraduate colleges and any lowering of the standards of the University.

An interesting experiment in offering educational opportunities to women outside the regular college curriculum was made during the past year in the course in Economics and Sociology known as Social Science e3-4, in which Barnard College coöperated with the Department of Extension Teaching, as we did in the spring of 1918 in a somewhat similar type of course in Government. Social Science e3-4 was an Extension course, given by two members of the Barnard Faculty but not counting for credit towards a Barnard degree. It was organized at the suggestion of the Junior League, but was open not only to League members but to any qualified student registering through the Department of Extension Teaching. It is of course always difficult to hold such a body of special students to any serious, steady and prolonged work; but the experiment seemed to demonstrate that there was a real need in New York City, now that women have the vote, for fairly solid courses of this type in the various branches of Political Science, designed especially for women from the age of about twenty-two upward, who have had a good secondary education but no college degree. It appeared also that this need could not be met by the regular Extension courses alone, coming as they do in the late afternoon and evening, but that the coöperation of Barnard College was necessary, and that by such aid we could render a real service to good citizenship in New York City. It is planned to continue the course next year, on much the same lines.

Still greater service can be rendered by the College to this cause if our alumnae and the outside committee now at work succeed in completing the one hundred thousand dollar endowment for the Anna Howard Shaw Memorial Chair of Citizenship. In other parts of the country also, similar chairs are being established in memory of the great suffrage leader whose wisdom, courage and inspiration contributed so much to the enfranchisement of women; so that, through all the years to come, her living voice may speak

Anna Howard Shaw  
Memorial Chair of  
Citizenship

to the passing generations and help them to exercise wisely the privilege she gave her life to winning for them. Here the establishment of this chair can be also a commemoration of the granting of the suffrage to the women of New York State. The professor who will occupy it not only can conduct for our students regular courses in governmental problems,— of which we greatly need more,—but also can give series of special lectures on politics and good citizenship for the women of New York outside our regular college body. This instruction will be closely related to the work of this type in Economics and Sociology already described, and it would be of immense value in helping to make Barnard a center of useful training in the problems of citizenship for the more thoughtful women of the city.

Two especially pressing problems have confronted the administration during the year. One is that of residence for our students and officers. The great congestion and the shortage of housing in New York City, the exorbitant rentals charged for apartments, and the very high prices and unsettled labor conditions in the building trades have combined to produce a peculiarly difficult situation. We have been unable to begin the erection of the wings to Brooks Hall, so acutely needed, and have been obliged to find other means of accommodating the resident students whom Brooks cannot take in. The situation was further complicated by the impossibility of renewing, beyond this year, the leases of the apartments occupied by the Alumnae Coöperative Dormitory. Very reluctantly we have been obliged to give this up, temporarily at least, in its present form. The following resolution, adopted by the Executive Committee of the Board of Trustees on May 14, shows how valuable the enterprise has been.

**RESOLVED**, That the Executive Committee of the Board of Trustees express to the Board of Directors of the Associate Alumnae its grateful appreciation of the excellent work done by the Alumnae Committee on the Coöperative Dormitory in organizing and conducting this dormitory during the past four years, the admirable business management which enabled the resident students to enjoy a healthful and pleasant home at very low cost, and the great advantages to the undergraduates of the friendly contact with the alumnae resulting from this relationship. And be it further



**RESOLVED**, That the Committee express to the Board of Directors of the Associate Alumnae its hope that in the new residence hall these benefits of alumnae coöperation may be as far as possible retained, and suggest that a committee be appointed by the Board to coöperate with the Committee on Buildings and Grounds of the College in working out plans to attain this end.

Happily the University is aiding Barnard to solve this residence problem, at least partially and temporarily. We hope to obtain possession next fall of thirteen apartments in John Jay Hall, one of the buildings recently purchased by Columbia, overlooking the Barnard Campus. Here we can probably house about one hundred and twenty students, who will all take their meals in Students Hall, just across the street. Unfortunately the rates which we shall probably have to charge, in order to cover expenses, will be higher than we could wish. We want, however, to make every reasonable effort to enable girls of small means to come to us, and we expect to set apart some of the apartments, at cheaper rates, for girls from the former Coöperative Dormitory and others who wish to reduce expenses by caring for their own rooms. Opportunities will also be offered them to earn money by helping in the Students Hall restaurant, and in the John Jay Hall office, and in other ways.

As the apartments become available, a few of the Barnard officers will be accommodated in Clinton Hall, the building set apart by the University for members of the Faculties.

The provision thus made is at least a promising beginning, but much more must be done for both officers and students before we can regard the residence problem as solved. It is especially to be hoped that building conditions will soon improve sufficiently to permit the erection of the Brooks Hall wings.

The second grave problem which we have faced has been the question of salaries for our teaching and administrative Salaries staff. The increase in the cost of living made our former salaries utterly inadequate, imposed very serious hardships on our professors, and imperiled the standing of the College. In October the Trustees made increases in salaries amounting to about \$10,000 for the year, but this of

course was of little aid. Realizing the emergency confronting the members of the Faculty, the Trustees decided in December, in spite of the insufficient resources of the College, to adopt in principle, and put largely into effect on January 1, the new salary schedule just passed by the Columbia Trustees. This is as follows:

|                                |                 |
|--------------------------------|-----------------|
| Professors . . . . .           | \$6,000—\$8,000 |
| Associate Professors . . . . . | 4,500— 5,000    |
| Assistant Professors . . . . . | 3,000— 3,600    |
| Instructors . . . . .          | 2,000— 2,400    |
| Assistants . . . . .           | 1,000— 1,200    |

It is understood that the Trustees reserve the right to treat exceptional cases in exceptional ways, and to depart from this scale when in their judgment it is expedient, and in fixing salaries in particular instances to take full account of teaching effectiveness, scholarly productiveness and academic usefulness.

Of course even this salary scale is modest and insufficient, compared to the cost of living in New York. But it is a decided step forward. The partial adoption of it on January 1 added to our budget an annual charge of about \$40,000. Further salary increases of about \$17,000 were voted for 1920-1921. To put the new scale fully and fairly into effect for our present teaching staff next year would add about \$25,000 more.

The Trustees also adopted the plan for retiring allowances recently established by the Carnegie Foundation for the Advancement of Teaching, and made these available for such of our officers as wish to participate. The cost of this to the College is small at first, but it will ultimately amount to 5% of our total salary list.

How is the College to meet all these heavy obligations? Preferably by additional endowment. Realizing this, the Committee on the Endowment Fund renewed its campaign in active and intensive form in February. With Mrs. George McAneny as Chairman, Miss Mabel Parsons as Secretary and Mrs. Israel Strauss as Executive Secretary, the Committee has worked so zealously and successfully, in

Retiring  
Allowances

Alumnae  
Endowment Fund  
Campaign

the face of considerable difficulties and in competition with the innumerable other drives in progress in New York City, that it has raised enough money to complete the conditions required by the General Education Board for its \$200,000 contribution, and has thus finished the \$1,000,000 Endowment Fund which we started some years ago to raise. The College is deeply grateful for this achievement.

The total gifts received from all sources during the year amount to \$936,904.20. The largest single sum has been

Gifts \$500,000 as a first payment on the bequest from Mrs. Russell Sage. From the Horace W. Carpentier Estate

\$50,000 has been paid as the last installment of the \$200,000 special fund for scholarships. From the General Education Board we have received \$189,250 in partial payment of its contribution. We have also received \$100,000 from the Carnegie Corporation.

Of the sum directly collected by the Alumnae, the largest single donation was the \$25,000 paid by Mrs. E. H. Harriman as the first installment of her contribution of \$50,000. This is the second gift of \$50,000 which the College owes to Mrs. Harriman's generous interest.

From the Memorial Fund Association we were granted \$10,000. The welcome gift of \$10,000 from Miss Mabel Choate was received too late to be mentioned in the report of last year. Shortly before his death, the Clerk of the Board of Trustees, Mr. Jennings, generously contributed \$5,000 in Liberty Bonds.

Towards the endowment of the Anna Howard Shaw Memorial Chair of Citizenship described above nearly \$11,000 has been paid or pledged. Of this amount \$5,000 has been promised by Mrs. Willard D. Straight, in addition to the \$25,000 which she pledged for general endowment at the end of last year. The Committee intends to resume in the fall active campaigning for the remainder of the \$100,000 necessary for this chair.

In speaking of gifts we should mention, in addition to funds received and pledged, the gift of the gateway and fence to be erected in front of Students Hall in memory of Helen

Hartley Jenkins Geer of the Class of 1915. It has been presented by her mother and sister, Mrs. Helen Hartley Jenkins and Miss Grace Hartley Jenkins, and will probably be completed by the autumn. The College will be very glad to have such a beautiful memorial of so loyal and beloved an alumna. Another gift of a personal nature is the portrait of the Dean by Matilda Brownell, which was presented to the College by four of its good friends, Mrs. Helen Hartley Jenkins, Mr. Charles R. Crane, Mrs. E. H. Harriman, and Mr. Jacob H. Schiff.

Even with the generous amounts received from the special contributions for endowment and from bequests, it has been impossible to make the necessary salary increases Tuition Fee for the staff without raising the tuition fee. Though this is for various reasons regrettable, it has been inevitable. Adopting approximately the same proportionate increase as the other schools of Columbia University, though not following their practice of "payment per point," Barnard College has raised its annual tuition fee from \$200 to \$250, and has made some increases in the minor fees. It is expected that in this way about \$30,000 will be added to our annual income. Through our large scholarship funds we hope to aid all the good students for whom this additional charge will be a heavy burden.

It would be comforting if we could decide that the resources of Barnard were now sufficient for immediate future needs, and settle down to giving all our interest and Further Needs energy to the internal development of the College. Unfortunately we have not yet attained this happy situation. The new salary schedule, modest enough in view of the high cost of living in New York, has been put only partially into effect. In order to adopt it fully and fairly for all the present teaching staff, we need to add to our Budget approximately \$25,000 a year. Besides this very urgent need, there are various other increases indispensable in the near future,—such as, for example, considerable sums for the upkeep of our buildings, which the high prices of war times have caused us to neglect. Considering carefully the total income we can count on from fees, from endowment already in hand,

and from funds soon to be paid in, we find that we should add to our income approximately \$50,000 a year. We thus require a further amount of \$1,000,000 for endowment, of which approximately \$500,000 is necessary for the salary increases for the teaching staff. In view of the good fortune which has come to Barnard during the past few years, it is perhaps not too much to hope that in the near future we may obtain this additional sum.

Respectfully submitted,

VIRGINIA C. GILDERSLEEVE,

*Dean*

*June 30, 1920*

# TEACHERS COLLEGE

## REPORT OF THE DEAN

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University and the  
Trustees of Teachers College*

SIRS:

I have the honor to transmit herewith the annual reports for the year ended June 30, 1920, of the Directors of the School of Education and of the School of Practical Arts. Reports of other administrative officers of Teachers College and its Schools will be published separately.

The educational surveys presented in the Directors' reports may be supplemented by a short statement of the condition of the College as affected by the rapidly increasing number of students. When our Milbank Building was erected (1897), the chapel was designed to seat the entire student body actual and prospective; accordingly 250 seats were provided. Seven years later (1904), a guess was made that if the Thompson Gymnasium should care for 500 women students, our needs for all time would be met. The Grace Dodge Building (1909) was planned for 500 students in Household Arts; last year we enrolled 569 students in Household Arts and 279 in Nursing and Health—all housed in this building with a capacity of 500. In the past ten-year period no room has been added to our plant, but the enrollment of matriculated students meantime has gone up from 1,123 to 3,118. Only by using every available foot of space and by running classes from early morning till ten o'clock at night, are we able to do fairly well by our students.

The financial situation has been complicated by the rapidly increasing attendance of students, but more particularly by the disturbance of war times. Total current expenses 1909-1910 were \$497,788.50 as compared with \$1,056,960.13 in 1919-1920. Meantime, earnings, chiefly tuition fees, have increased from

\$399,108.29 to \$839,112.15, whereas income from endowment and trust funds has increased from \$54,733.67 to \$121,064.30. It is apparent, therefore, that the maintenance of the College rests principally on its students; its income from endowment is sufficient to meet only about two-thirds the cost of the upkeep of the plant.

The problem of the past six years has been to meet the rising costs of maintenance and sustain the morale of the staff on inadequate salaries. With no appreciable increase in gifts, the only recourse has been to raise tuition fees. The outcome is that the cost of instruction in Teachers College and of living in New York is now prohibitive to most students whom we wish to reach, particularly those in the service of public schools in both city and country.

In the effort to reduce the expense to students, our Trustees have purchased an apartment house of 375 rooms on the corner of 121st Street and Morningside Drive and named it Seth Low Hall, in honor of a good friend of Teachers College. This building, together with Bancroft Hall and Whittier Hall, will give us rooms at reasonable rates for 1,400 students.

The Trustees have also pledged themselves to secure funds for the erection of a library building and heating plant. The General Education Board has generously promised a gift of one million dollars on condition that two millions more be raised for buildings and endowment. Nearly one million has been subscribed by eight Trustees and one other friend of the College. The other million must surely be found during the coming year. Our alumni are active in seeking support from known believers in education in other parts of the country. They think the time has come to demonstrate the fact that Teachers College is a national institution and worthy of more than local support. In supplying leaders of education, the College is doing a patriotic work that invites public recognition to the extent that it gains the confidence of the teaching profession.

Respectfully submitted,

JAMES E. RUSSELL,

*Dean*

*June 30, 1920*

# SCHOOL OF EDUCATION

## REPORT OF THE DIRECTOR

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the Dean of Teachers College*

SIR:

I herewith submit my report for the School of Education for the academic year 1919-1920.

The total number of students enrolled in the School of Education has been 1567 (not including graduate students with majors in Practical Arts), as compared with 1053 for the preceding year. In Practical Arts 185 graduate students elected majors, as against 151 in 1918-1919. The matriculated students of both schools in the Summer Session of 1919, not in attendance during the regular year, numbered 2,030. Of the total number of students in the School of Education during the academic year, 27 were enrolled as unclassified graduate students, 815<sup>1</sup> indicated their desire to become candidates for the Master's or Doctor's degree, and 725 were matriculated unclassified students. Of this latter number 320 were enrolled as candidates for the degree of Bachelor of Science. In the preceding year there were 570 candidates for the degree of Master of Arts and 130 unclassified graduate students.

During the year the degree of Doctor of Philosophy was conferred upon 23 students, 13 of whom had taken the Master's degree at Columbia. This is the largest number of candidates ever granted the Doctor's degree through Teachers College in a single year. In previous years the largest numbers were 19 in 1918, 15 candidates in 1911, 13 in 1914. In the preceding year 9 doctorates were awarded. For the academic year 1919-1920,

Degrees and  
Diplomas  
Granted

<sup>1</sup>1,000 including graduate students with Practical Arts majors.



423 students in Teachers College received the degree of Master of Arts, 6 the degree of Master of Science, and 399 the degree of Bachelor of Science.

The total number of diplomas granted during the regular academic year was 489.

Of the 1,027 graduate students 94 held the Master of Arts degree from Columbia University; 173 students held the degree of Bachelor of Science from Teachers College. Other colleges and universities were represented as follows: Hunter College, 49; New York University, 29; College of the City of New York, 28; Vassar College, 27; University of Chicago, 25; Wellesley College, 24; University of Michigan, 19; University of Wisconsin, 19; Syracuse University, 18; University of Missouri, 17; Mount Holyoke College, 17; Harvard University, 16; Northwestern University, 16; Cornell University, 15; University of Illinois, 14; University of Minnesota, 14; University of California, 13; Smith College, 13; Brown University, 13; New York State Normal, 12; Ohio Wesleyan University, 11; Colgate University, 10; Dickinson College, 10; Leland Stanford University, 10; Adelphi College, 9; Colorado State Teachers College, 9; Cornell College (Iowa), 9; Michigan State Normal College, 9; Ohio State University, 9; University of Indiana, 9; Goucher College, 8; University of Pennsylvania, 8.

The total number of institutions represented was 218.

In the choice of subjects other than education pursued by the Teachers College students in other parts of the University, the following departments proved most attractive:

|                                    |   |
|------------------------------------|---|
| Distribution<br>of the<br>Subjects | English, 413; Psychology, 244; Sociology, 184;<br>History, 162; French, 102; Ethics (U. T. S.), 94;<br>Practical Theology (U. T. S.), 73; Business, 72;<br>Comparative Literature, 68; Spanish, 63; Chemistry, 51;<br>Architecture, 36; Mathematics, 34; Philosophy, 30; Economics, 26; Zoology, 25; Music, 21; Geology, 16; Neurology, 16; Agriculture, 14; Fine Arts, 12; Botany, 11; Physical Education, 11; Astronomy, 10; German, 8; Physics, 7; Statistics, 7; 39 other subjects were chosen by a smaller number of students. A total of 1,989 class registrations repre- |
|------------------------------------|---|

sents the interest of Teachers College students in other phases of University work.

The increase of students from foreign lands is one of the most significant features of the year. Nothing so well indicates the extent of the influence of Teachers College as the number and distribution of these students. During the year 1918-1919 they numbered 126; during 1919-1920, 203. Those from Canada, which is hardly to be counted a foreign land, increased from thirty to sixty. The number from China increased from 32 to 48; those from Japan from 9 to 21; those from India from 1 to 5; from Mexico from 2 to 5; from the West Indies from 1 to 5. For the Summer Session of 1920 the record is even more remarkable. There were at least 383 students from 47 different countries in Summer Session attendance. Two-thirds of these were in Teachers College; the remainder in other departments of the University.

Students  
from Foreign  
Lands

The interests of these students are very diverse, being as widely distributed as the entire range of our offerings. The influence which they subsequently exert is so great, and the lack of adaptation of our offerings to their special need is often so pronounced that special attention must be given to them. The formation of a Sub-Committee on Welfare of Foreign Students, together with the special social rooms established in Bancroft Hall in coöperation with the Friendly Relations Committee of the Y. W. C. A. have partially met this need.

The large number of visiting educators from foreign countries is also worthy of note. Almost as many countries are represented by them as by the foreign students; and their number is as great.

Foreign  
Visitors

The Executive Committee of the Faculty of Education held seven meetings during the year and discussed the various questions of policy and the problems involving the interest of individual students, devoting to them time and attention which the larger faculty would have been unable to give. Various courses of instruction were authorized and several new programs of study were organized. Among these leading to new diplomas were

Executive  
Committee

those for Director of Rural Education in Normal Schools, for General Science, for Rural Community Workers, for Teachers of Commercial Education. Two of these

New Diplomas  
New Lines of  
Work

diplomas indicate new developments of our work which will call for further consideration and will in the near future call for a discussion of policy. The program of studies for Rural Workers, together with the rapid growth of the number of students electing the program for Social and Religious Workers and the program for training in Citizenship, indicate a growing need. The activities of the community worker, in city, town and country, are rapidly assuming an educational character. In each type of community such centers are rapidly multiplying; in town and rural regions these centers are closely allied with the school. Rural community work is usually centered in the school. In many towns community organizations are being effected and community houses erected. To obtain the best results from these efforts, a close alliance with the school is desirable. In the cities where community organizations are numerous and, as frequently happens, are entirely independent of the school, their work is distinctly educational, and the workers would greatly profit by a knowledge of the scope and technique of public school education. On the other hand, teachers and administrators in the public school would greatly profit by the enlarged vision of education which would come through contact with or participation in organized community endeavors. Then again a distinct technique is being developed in the field of community work and a more general agreement concerning objectives, methods and educational relationships is being attained.

Teachers College must decide whether it is to take a larger part in this work and thus secure a greater unity in phases of its offerings. Such enlargement and unification would also offer a valuable contribution to the general field of educational administration.

As an evidence of the importance of this field, the growth of interest in the closely allied fields is significant. For several

years a course has been given in teaching English to foreigners. For the academic year 1919-1920 a year's program of studies was organized relating to the teaching of Citizenship. The total class registrations for this program number several hundred. The number taking the technical course dealing with the work with the adult immigrant was 104 during the Winter and Spring Sessions and 109 during the Summer Session. The advanced courses preparing for supervision of this work in public school or industrial plant were taken by 50 students during the Summer and by 20 during the Winter Session.

Teaching of  
Citizenship

In a similar way interest has developed in the program for Social and Religious Workers, established four years ago. The program has prepared workers chiefly for the community work of the various churches, with a number for foreign fields. Between 40 and 50 young women, all college graduates, now specialize in this field each year. The demand for such trained workers is far beyond what the department can supply.

The College has avoided entering the field where existing agencies offer opportunities for training, and particularly where the specialized work is of remedial rather than of constructive educational character. But this latter activity is rapidly developing and the agencies established for training the social or community worker, dealing chiefly with poverty, disease, disrupted family relations and similar social ills, are less well prepared to train the workers needed in the field of constructive community work than Teachers College. The demands on the College in this respect are within its educational purpose and should be given careful consideration.

Community or  
Social Education

The continued increase in the number of graduate students necessitates renewed effort in the organization of work for the higher degrees. The revision of the requirements for matriculation and for the conferment of the doctorate two years ago have placed that work on a satisfactory basis.

The Higher  
Degrees

The increase in the number of graduate students matriculated for the Master's degree has crowded our courses, made

individual attention to the students more difficult, and calls for some reorganization of our requirement for the control of this degree. The change in policy adopted by other departments of the University by which they absolve themselves of all responsibility for students doing their major work in other departments, again makes some revision of our policy desirable. The number of successful candidates for the Master's degree in 1919-1920 was 429, almost as large a number as was recommended by all other departments of the University.

Further reorganization and additional support for research work are desirable. While Teachers College has had an enviable record in the pioneer work of educational research in almost every line, and although the stimulus which it gives to such work throughout the country is very great, there is still need of further differentiation in the work of instruction, for a specialization of a few for the stimulation and supervision of this work and for more adequate financial support.

Practical field work in connection with several departments has been continued much as in the past few years. The department of Educational Administration conducted surveys of the State of Delaware, of Greensboro, North Carolina, and of Amsterdam, N. Y. The department of Secondary Education conducted a survey of the high schools of Reading, Pa. Partial surveys were conducted in a number of rural regions by groups of students. Similar investigation was carried on in connection with the work in vocational guidance, in social religious training, in vocational education and in the training for supervisors.

The attendance at the Summer Session continues to tax the accommodations of the college to the utmost. The total Summer Session attendance in 1919 was 9,539, in 1920 it was 9,778. Of this about two-thirds of the class registration was in Teachers College. The offering of courses in the School of Education this year has been increased to 170. The program was arranged to cover every hour of the day and every available room in the plant and in addition a number of rooms in Barnard College were

rented. As a result the discomforts of overcrowding were greatly lessened; the accommodations of the new annex building will be greatly appreciated.

It is with appreciation of the cordial support of the administration and of the trustees, as well as of the work of the members of the staff, that I record the following promotions made during the year:

Appointments  
and Promotions

Thomas Henry Briggs, Ph.D., from Associate Professor to Professor of Education.

Edward Samuel Evenden, Ph.D., from Associate to Assistant Professor of Education.

Arthur I. Gates, Ph.D., from Instructor in Psychology to Assistant Professor of Education.

Also the addition to the Faculty of

Harold Ordway Rugg, Ph.D., University of Illinois, as Associate Professor of Education.

Respectfully submitted,

PAUL MONROE,

*Director*

*June 30, 1920*

# SCHOOL OF PRACTICAL ARTS

## REPORT OF THE DIRECTOR

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the Dean of Teachers College*

SIR:

I submit herewith my annual report as Director of the School of Practical Arts for the academic year closing June 30, 1920.

The total registration of regular students in the School of Practical Arts from September, 1919, to June, 1920, was 1,366 Attendance undergraduate and 185 graduate; total 1,551.

In addition, about 700 Extension students were admitted to regular technical courses for which they were well qualified and about 213 more were in special non-credit classes. Moreover, about 900 auditors' cards of admission were issued for extension special courses of lectures conducted by the departments of the School.

The following tabulation shows the attendance of matriculated students for the last seven years. The increase from 1913 has been chiefly in the professional students (Juniors, Seniors, graduates), the Freshman and Sophomore classes together having constituted an annual group of 250 to 300 students.

|           | Undergradu-<br>ates in<br>Practical Arts | Graduates in<br>Practical<br>Arts | Total in<br>Practical<br>Arts | Total in<br>Teachers<br>College |
|-----------|--|-----------------------------------|-------------------------------|---------------------------------|
| 1913-1914 | 793                                      | 37                                | 830                           | 1,803                           |
| 1914-1915 | 1,070                                    | 95                                | 1,165                         | 1,904                           |
| 1915-1916 | 1,065                                    | 127                               | 1,192                         | 2,222                           |
| 1916-1917 | 1,157                                    | 174                               | 1,331                         | 2,444                           |
| 1917-1918 | 1,141                                    | 166                               | 1,307                         | 2,385                           |
| 1918-1919 | 1,159                                    | 151                               | 1,310                         | 2,363                           |
| 1919-1920 | 1,366                                    | 185                               | 1,551                         | 3,118                           |

The above tabulation shows an increase of 721 (87 per cent.) matriculated students in the seven years. The fact is, that the number of matriculated students according to our present system of registration has more than doubled in seven years, for many students classified as part-time matriculated in 1913-1915 have since 1915 been registered as Extension students and are now included in the group of 700 referred to above.

The total amount of instruction in the School is not at all indicated by the number of students, because over 80 per cent. of the matriculated undergraduates register for full programs of 15 to 18 points per session, while less than 8 per cent. have less than half-time programs. The average undergraduate in the School of Practical Arts registers for at least 50 per cent. more points than does the average student of Teachers College outside the departments of Practical Arts. This statement is based on the fact that registered programs this year were 15+ points per session for the average undergraduate in Practical Arts, 8+ points for the average unclassified student in Education, and 9.8 points for the average graduate student in all departments of Teachers College.

Looking in still another way at student programs in the departments of Practical Arts, they mean more instruction than in the case of programs registered in other departments of Teachers College. This is so because in the majority of courses offered in Practical Arts a "point" means one lecture or two hours of laboratory work per week, whereas in Education it is possible to assign outside work for at least one point in every three-point course.

Considering both the average 15-point programs of the 1,366 undergraduates in Practical Arts and the fact that most of these programs call for class instruction at the rate of not less than one hour per point, it seems safe to estimate that the average undergraduate in Practical Arts attends classes for at least 75 per cent. more hours of instruction than does the average of all other students in Teachers College. In other words, the problem of providing class room and laboratory



space and teaching for 1,000 of the average undergraduates in Practical Arts is as big as that for 1,750 of the average of all other students in Teachers College. Applying the same proportion, the 1,366 undergraduate programs registered in Practical Arts this year required class room and laboratory space and class instruction equal to that which would have been required by 2,390 students whose average programs were those of the 1,752 students of Teachers College other than the undergraduates in Practical Arts.

I have stressed these figures regarding student programs in order to point out that in trying to solve our problems of class room and laboratory space and of instruction, we must consider more carefully than we ever have done before the individual student's program, both as to number of points registered and as to the amount of class instruction demanded by the nature of the courses taken.

The departmental distribution of Teachers College graduate students with major work in Practical Arts shows no marked change except that in Nursing and Health an unusual number of graduate nurses who are also college graduates are registering for the Master's degree. Correspondence indicates that this growth is likely to continue for several years.

#### GRADUATE STUDENTS IN DEPARTMENTS OF PRACTICAL ARTS 1918-1920

|                              | 1918-1919 | 1919-1920 |
|------------------------------|-----------|-----------|
| Household Arts . . . . .     | 76        | 90        |
| Fine Arts . . . . .          | 23        | 36        |
| Industrial Arts . . . . .    | 12        | 10        |
| Music . . . . .              | 1         | 6         |
| Nursing and Health . . . . . | 6         | 19        |
| Physical Education . . . . . | 11        | 24        |

The number of teaching and supervising diplomas conferred in 1919-1920 was 97 in Household Arts, 9 in Industrial Arts, 23 in Fine Arts, 14 in School Music, 25 in Physical Education, and 4 in Nursing. The small number in Nursing is due to the fact that many students in that department have not time to make up the academic

requirements for degrees, and hence are not eligible for Teachers College diplomas.

Probably the most significant development of the past year has been the rapid extension of opportunities for field work in several lines of Practical Arts. For a number of years there has been in the School a decided tendency to follow the old-time academic subjects in limiting instruction to laboratory and lecture room. In short, our teaching tended to drift far from practical life. The weakness of this has been pointed out many times by officers of instruction and by experienced students. This year an additional argument for outside work was derived from the increased number of students, for the resulting overcrowding of the laboratories made it necessary to provide some outside work. Accordingly, during the past twelve months various opportunities for practical field work have been developed in Household Arts, Public Health Nursing, Fine Arts, and Physical Education.

In Household Arts the training of prospective teachers in practical applications of dietetics to family life has been provided by organization of the Morningside Nutrition Center in Lawrence Street. This is being conducted under coöperative agreement between the School of Practical Arts and the Charity Organization Society. Three large classes of students have already had a session's training at the Center, and it has proved to be a very valuable adjunct to our dietetics laboratories.

Field practice in social work for teachers of home-making and for public health nurses has been provided by another coöperative agreement between the School of Practical Arts and the Charity Organization Society, whereby approved students of Household Arts and Nursing get intensive field work in family problems under the direction of the home-making and public health experts of the C. O. S. Hereafter, classes will be registered at Teachers College (Social Science 107, 4 points) for either session of the regular college year and for June. Special sections of the class were conducted in June, 1919 and 1920. One section of this course will hereafter be

assigned to public health work in connection with the Henry Street Settlement. Other and similar opportunities are ready for development as soon as new sections of the course are necessary.

In the field of Clothing and Textiles we have attempted for several years to operate at Teachers College a small shop along trade lines, but this experiment has proved expensive, artificial, and not adapted to training teachers for vocational schools. During the past year we have experimented to a limited extent with a plan for placing approved students in regular trade shops, and the results indicate that this is the line which we should follow as rapidly as opportunities can be found in desirable shops.

In Fine Arts there has been developed a plan for a limited amount of field work in the art industries, costume design, and home decoration. Here as in the case of Household Arts, referred to above, the aim is to make practical teachers rather than technical trade workers.

In Physical Education there has been organized a group of out-door activities in connection with a girls' camp. A class of forty women has been enrolled for a month of special training in the late summer of 1920, and it is probable that both June and September classes will be necessary hereafter. This plan will give group training in many lines needed by the up-to-date teachers of Physical Education and the leaders of girls in Scouting and clubs.

During this college year the Committee on Instruction, assisted by heads of departments, has made many important changes in the major programs and courses in the several lines of Practical Arts. The major programs in General Household Arts, Industrial Arts, and Mechanical Drawing have ceased to be useful and have been omitted from the Announcement for next year. This omission of these major programs does not mean dropping important groups of students, for in most cases the students will turn their interests into lines of greater professional opportunity.

Reorganization of  
Major Programs  
and Courses

The major programs in Household Arts, Fine Arts, Physical Education, and Practical Science have been thoroughly revised by the Committee on Instruction, assisted by conference groups. Full details of these changes have already been published in the 1920-1921 Announcement of the School of Practical Arts.

In my last report I called attention to the need of courses more advanced than at that time had been offered for the Master's degree. This situation has been very much improved during the past college year. The appointment of Associate Professor Eddy in Physiological Chemistry, of Miss MacLeod as instructor in Nutrition, of Associate Professor Williams in Physical Education, of Assistant Professor Martin in Fine Arts and of several part-time lecturers in special lines has made it possible to increase our offering of advanced technical courses for graduate students. At the same time we have made an important step forward in Practical Arts Education by the assignment of Professor Bonser to graduate work in this general line supplementary to the specialized graduate education courses in the departments of Practical Arts. The heads of these departments will next year cooperate with Professor Bonser in offering a practicum and a seminar in the general field of Practical Arts Education.

Advanced students prepared to begin or continue research work in Practical Arts are coming to the College in rapidly increasing numbers. Our instruction staff and our laboratory facilities are now adequate for limited groups of such students in Applied Bacteriology, Physiological Chemistry, Household Chemistry, Cookery, Household Administration, Household Economics, Applied Social Science, and Nutrition. In most of these lines we now offer courses introductory to investigation and in some of the departments a limited number of students can be guided in more extensive research. However, such possibilities for research in Practical Arts are at present very decidedly limited by the demand upon our laboratory space for regular class instruction. We very much need, and

Advanced  
Instruction

Research Work in  
Practical Arts

could use efficiently within three years, laboratory space equivalent to one floor of the Grace Dodge Building devoted exclusively to research work in Bacteriology and Sanitation, Cookery, Housewifery, and Applied Chemistry (Household, Food, Physiological). The time is coming rapidly when in order to maintain our leadership in the training of teachers of Household Arts it will be necessary to have adequate laboratory space and equipment for more advanced study of household problems from the standpoint of applied science.

Assistant Professor Charles William Weick, who had been in charge of mechanical drawing in Teachers College for twenty years, died in November. Assistant Professor C. D. Carpenter has been transferred to the University Department of Chemistry. Professor Alon Bement, Assistant Professor of Fine Arts, has resigned to become Director of the Maryland Institute of Fine Arts. Assistant Professor Walter H. Eddy has been promoted to the rank of Associate Professor of Physiological Chemistry with a seat in the Faculty of Practical Arts. Dr. Josephine Hemenway Kenyon, who resigned two years ago to take up war work in the Y. W. C. A., has returned to her duties as lecturer in Hygiene. Many changes have been made in the staff of instructors and lecturers.

In conclusion, I am glad to report to you, Dean Russell, that from every department of this School I have heard expressed opinions, both of professors and of junior officers of instruction, that the past year has been on the whole the most satisfactory of the eight years of the School of Practical Arts. I think this general feeling of satisfaction is due largely to the fact that, after four years of marking time during the war period, the staff of Practical Arts has been able during the past year to make rapid progress in many readjustments which we have been proposing and discussing for several years, but have not been able to put into actual practice.

Respectfully submitted,

M. A. BIGELOW,

*Director*

*June 30, 1920*

# COLLEGE OF PHARMACY

## REPORT OF THE DEAN

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR:

I have the honor of submitting the following report for the academic year 1919-1920, a year that has been fruitful of interesting and important developments.

Our freshman registration for this year was unprecedentedly large, and the attendance was the greatest in our history. With every indication of a still larger application for admission to the next class, and with the very large sophomore class already registered, we find ourselves compelled, for the first time in our history, to place a limit upon the number of matriculants. Whereas last year's freshman registration ran far above three hundred, we shall be unable, during the coming year, to accommodate more than 225 in our entering class.

It is gratifying to report that last year's matriculation exhibited a very large increase in the percentage of students who had completed their high school course.

The Baccalaureate degree is again conferred this year, two students having completed the four-year course with great credit, one of them receiving the first award of the Isaac Plaut Fellowship.

Fidelity requires me to report that the steady improvement in the scholarship of our students that has been recorded in recent years has suffered something of a check during the last session, a result that has been directly due to causes growing out of the great war. Very many of our freshman students, and a still larger fraction of our sophomores, were men whose studies had been

interrupted by the war. In my last report, I referred to a spirit of unrest and diversion of student activity resulting from the world's disorder. It was hoped that the ending of hostilities would remedy this condition to a great extent, but the result has been disappointing. Not only our returned warriors, but many of their classmates have manifested a disregard of the laws of cause and effect in student activity. Quite a number of them have failed to make the requisite effort and the results of our examinations have not measured up to the standards of recent years. In spite of strong expressions of discontent by the delinquents, our Faculty has stood firmly for the maintenance of standards, and we do not doubt that the reaction will be satisfactory from an educational standpoint.

Not the least important of the year's developments has been in the direction of relief from the painful financial conditions which have been increasing for several years past. This school, at last year's national convention of pharmaceutical faculties, started a movement for securing better compensation for teachers in pharmacy schools, the result of which has been to improve conditions greatly in a number of localities. The schools of this State have united in an increase of tuition fees that has enabled them to establish much more satisfactory salary conditions for the members of their respective faculties. In the absence of such improvement, there would have been much difficulty in maintaining faculty organization.

Our Trustees and Faculty are at present turning their attention toward plans for the establishment of better facilities for work in our advanced grades, to include also laboratories specially adapted to research work in pharmacy and its fundamental sciences. Consideration is also being given to the advisability of organizing a special course of study, separated from our regular work, in commercial pharmacy.

Important pharmaceutical events of the year outside of our own school include the agreement by the schools of the American Conference of Pharmaceutical Faculties to increase

the length of the school course from two to three years, beginning with the session of 1925. A proposal to make it four years in 1927 was wisely laid over for a further study of conditions. Three-Year Course

The decennial convention for the revision of the United States Pharmacopoeia was held in May. As usual on such occasions, various wild and ill-considered proposals were advanced. These were readily sent to limbo by the more experienced and wiser delegates, and a very satisfactory result has been secured. The distinguished honor of being offered the chairmanship of the Revision Committee was conferred on our Professor Arny, but was declined in the interests of better service to our College.

It may not be out of place for me to add that our Board of Trustees has kindly granted a year's leave of absence to the Dean, to allow him to pursue scientific exploration abroad.

Respectfully submitted,

H. H. RUSBY,

*Dean*

*June 30, 1920*



SUMMER SESSION  
REPORT OF THE DIRECTOR  
FOR THE SUMMER SESSION OF 1920

*To the President of the University*

SIR:

As Director of the Summer Session I have the honor to submit the following report of the twenty-first Summer Session of the University which opened July 6 and closed August 12, 1920.

The Summer Session, begun and for two years conducted directly by yourself, has for eighteen years continued under the leadership of Professor Egbert. After serving with him as his assistant during the Summer Session of last year, I was appointed by the Trustees in October, 1919, Director of the Summer Session. I have continued to enjoy the wise counsel and encouragement of the former Director, to whose remarkable ability the success of the Summer Session has been so largely due.

The report of the Registrar includes the statistical record of the Session. (See pages 298-303.) Outstanding figures are: (1) the enrollment of 9,780, which is the largest in the history of the Summer Session (against 9,539 for the attendance of 1919), in spite of the increase of the fees over those of 1919; (2) the percentage of men and women, 32.84 and 67.16 respectively; (3) the wide territorial distribution with 6,709 students from outside of New York State, and with 1,393 (14.25 percent.) from the South Atlantic Division (Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, West Virginia) and 237 students from foreign countries. Studies of the distribution of previous years indicate clearly that the percentage of students from outside New York State is constantly increasing.

Other interesting figures are: 492 instructors,—337 men and 155 women, with the addition of 83 assistants,— 39 men and 44 women; in the Demonstration School there were 6 High School teachers and 14 Elementary teachers. A total of 689 courses was offered. In addition to the regular courses there were 101 special public lectures.

Teaching  
Staff

The Goldman Concert Band gave fifteen concerts on the Green during the Session, and three concerts were given in the Gymnasium under the direction of Professor Walter Henry Hall. Excursions were conducted in and about New York City with a total of 11,259 participants. The West Point excursion included 1,434 students and 678 were taken to Atlantic City.

Concerts and  
Excursions

Students Hall was opened by arrangement with Barnard College. The women of the University appreciated their exclusive use of a swimming pool. The pool was used on the average by 600 women each day.

The instruction showed no marked change from that of previous years. There were 114 instructors from outside the University staff; no instructors from foreign countries.

The courses offered in the social sciences were larger in number and more varied than heretofore. They included courses in the history of New York State and the State of New Jersey. In addition to the courses bearing directly and indirectly on education for citizenship, a series of ten conferences on the Education of the Adult Immigrant were provided for the students with the cooperation of the University of the State of New York.

Courses

The offering of a group of courses providing training for public service, supplementary to those already given in the social sciences and by Teachers College, would seem to be a proper function of the Summer Session. Municipal and community control, public service corporations, and possibly the functions of the diplomatic and consular service, might each be cared for by the addition of a few courses by experts in the practice of these types of public service.

The number of advanced students with practical experience

who enrolled for higher degrees in Education was very gratifying. The Summer Session plays a very important part in the whole educational system of the country through the influence which it exerts on the thousands of teachers in residence each summer.

With the cooperation of the United States Interdepartmental Social Hygiene Board, the United States Bureau of Education, the United States Public Health Service, and the American Social Hygiene Association, a series of courses and conferences on Social Hygiene were offered at Teachers College, and attracted from over twenty colleges, leaders in this field. The conferences with governmental agencies proved altogether beneficial and indicates a line of future development.

A larger program than usual was provided by the Department of Physical Education. Courses were conducted for coaches of sports as well as for athletic directors.

Instruction in modern languages was increased, with continued emphasis on the importance of teaching the spoken and the written language. A French residence was maintained, and advanced conversational classes were conducted in French, Spanish, and Italian.

Two new courses in the history of the Fine Arts were offered. They were so successful as to render desirable the expansion of the work in this field. The Department of Fine Arts, Teachers College, held exhibitions; Avery Library conducted three exhibits: one of the work of the students in Architecture, one a loan exhibit of etchings from the firm of Frederick Keppel and Company, and one an exhibit of prints published by museums and commercial houses and readily obtainable for use in schools and homes.

The registration in the School of Architecture increased from seven in 1919 to nineteen in 1920.

A wide offering of courses in Business met with gratifying registration, and drew students from all parts of the country. As an experiment, two courses, each of three weeks only, were announced in the theory and practice of advertising, under the instruction of two men recognized by the trade as leaders in the profession. To these courses, which carried no

academic credit, only those already at least partly trained were admitted. This plan of short time courses in applied subjects open to persons already partly trained seems to be one worthy of more extended use in the Summer Session.

Instruction in the teaching of commercial subjects was successfully begun, and will doubtless be carried out on a larger scale. It would seem a natural development of our educational program and should be closely correlated with the offering of the School of Business.

The courses in Library Economy were continued with a fair increase in registration. Plans for next year should include a program in library training which will develop into a summer offering leading to a certificate based upon a fixed series of unit courses. There are indications that general, school, and business library work should be given individual attention.

Numerous inquiries were made as in years past for courses in the evening. Courses in English for foreigners, and in business subjects were most frequently requested.

It seems desirable to announce evening courses in these subjects for the Summer Session of 1921. In this connection the desirability of offering evening courses for a term longer than the six weeks of the Summer Session, say June 15 to September 1, should be considered. Evening courses should conform to the academic unit of thirty hours; yet students can scarcely attend a course for five nights each week. This fact apparently necessitates a longer term.

Evening  
Courses

The housing situation, which gave such cause for anxiety in 1919, was handled with marked success in 1920. A larger Residence Bureau, serving the University through the entire year, was established as a part of the Office of the Secretary. It assisted the Summer Session with great efficiency. Its listings revealed, however, prices which present serious hardship to students, and will almost certainly operate to decrease attendance. The Summer Session feels very acutely the need for more adequate dormitory accommodation. On University property 594 men and 1,192 women were housed in the summer of 1920, making a total of 1,786; yet 7,587 students came from outside

The  
Housing  
Situation

New York City. Of students not living at home only 23.5 per cent. were housed by the University at an average rental of \$5.50 per week as against an estimated average rental of \$8.00 per week for those not in University dormitories. Furthermore, preference is given in the women's dormitories to girls under twenty-four. This works an obvious hardship on more mature students, though it seems justified by the responsibility of the University toward its younger students.

As Director of the Summer Session I should like to report, in closing, the unvarying cooperation which was shown by the various offices of administration throughout the University. It was so notable as to be remarked by students, and to materially assist in creating an atmosphere conducive to study.

Respectfully submitted,

JOHN J. COSS,  
*Director*

*September 30, 1920*

# EXTENSION TEACHING

## REPORT OF THE DIRECTOR

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR:

I have the honor as Director of Extension Teaching to present herewith the following report for the academic year ending June 30, 1920.

The preceding year, the last of the war, abounded in indications of extraordinary interest in the work of this department. Nevertheless the effect of the war continued to be felt and the increase in the number of students was comparatively small.

The year just closing, of which this is a report, shows a phenomenal increase. The total number of students in 1918-1919 was 7,052 while those registered for this year numbered 12,873. The increase over last year was, therefore, 5,821. Registration

The larger registration is not confined to any one part of the broad scheme of Extension study. It is significant of every subject offered in this department.

As we consider this development we are profoundly impressed by the educational needs of this great metropolis and are gratified by the manner in which Columbia is endeavoring to meet those needs. The idea of extending the work of the University is comparatively new in Columbia and belongs to its modern history. It is true that in the very early days Columbia College offered a general course of lectures for those who were not enrolled students. This excellent plan, however, was not maintained. The opinion that a university in a great metropolis must do something more than consider those who can be enrolled in the regular schools has only recently been

understood and appreciated. We are rapidly recognizing the service which a university, located as Columbia is in the heart of a great city, should render to the multitude at its gates. This service should be commensurate with the demand and no prejudice should interfere with the duty which confronts us.

The organization of Extension Teaching was entirely equal to the emergency which the extraordinary and unexpected numbers presented. All who applied were given suitable advice and were readily assigned to appropriate classes. All classes which were crowded were subdivided. Hence, English A was expanded from six sections to twenty-one sections. An endeavor was made to keep the number registered in each section below thirty and in certain subjects below twenty. The manner in which this was accomplished testifies to the efficiency of the organization, not only of Extension Teaching, but of the University in general, as the strain was also felt by the other important administrative offices.

The administrative control of this great department which, in various ways, cares for the educational and cultural needs of about fifteen thousand persons, is intrusted to an Administrative Board of seven with an executive officer, the Director, as chairman.

The Director is in general charge of the entire enterprise, determining both the educational and financial policy of the department for final approval by the President. The Director is aided by five assistants. Professor Frank A. Patterson is in general charge of the students and considers their welfare, giving them advice and watching their careers and guarding the standards which a university department must maintain. In this he is assisted by Professor Katharine Campbell Reiley who is in entire charge of the women students. In the coming year Dr. Meta Glass will be associated with Miss Reiley in caring for this great body of women students. The Institute of Arts and Sciences is under the efficient management of Mr. Milton J. Davies. The Home Study work, now beginning its second year, is in charge of Mr. Levering Tyson. In addition to these general assistants who devote themselves to adminis-

trative duties, Professor John H. H. Lyon supervises the collegiate classes at the Long Island College Hospital in Brooklyn. The supervision of the Extension work in Dentistry, the Oral Hygiene and the Advanced Courses for Practitioners has been under the direction of Dr. Albert H. Stevenson. This capable and devoted servant of the University died suddenly in August of spinal meningitis after suffering from nervous debility due to overwork.

There are 360 instructors in the general work of Extension Teaching, 18 instructors in the premedical courses in the Long Island College Hospital, 7 instructors in Practical Optics, 16 instructors in Oral Hygiene and 41 in the Advanced Courses in Dentistry; 16 have taken charge of courses in extra-mural centers and 15 have cared for the courses in spoken languages. Of these 133 are connected with the University in other ways. There are 138 lecturers in the Institute of Arts and Sciences.

The following subjects were offered in the general department of Extension Teaching, the figures indicating the number of courses: Agriculture (8), Architecture (31), Astronomy (2), Botany (4), Business (54), Economics (5), Chemistry (12), Chinese (2), Drawing (2), Engineering (16), English (39), Fine Arts (7), Geography (3), Geology (6), German (13), Government (3), Greek (4), History (20), Hygiene (1), International Law (6), Journalism (2), Latin (9), Law (2), Library Economy (7), Mathematics (18), Music (6), Neurology (1), Philosophy (8), Phonetics (9), Photoplay Composition (6), Physical Education (4), Physics (1), Psychology (9), Romance Languages (29), Secretarial Correspondence (1), Semitics (3), Slavonic—Polish, Czecho-Slovak, Serbo-Croatian (18), Sociology (16), Speech Improvement (2), Stenography (15), Typography (1), Vocational Guidance (1), Zoology (2). The School of Practical Arts of Teachers College offered 121 courses open to Extension students. This summary indicates the general educational work of the Department and its scope.

Among special departments we should mention Advanced Dentistry (31), Optics and Optometry (21), Oral Hygiene (26), Spoken Languages (Arabic 1, Armenian 1, Chinese 1, Danish-



Norwegian 1, English 2, French 5, German 3, Icelandic 1, Irish 4, Italian 2, Japanese 2, Portuguese 1, Rumanian 1, Russian 2, Serbo-Croatian 1, Spanish 6, Turkish 1).

Extramural courses were offered at Asbury Park (Education 1), Bridgeport (English 1), Hackensack (Education 1), Hartford (English, Economics 2), Scranton (English 2), South Norwalk (English 1), Trenton (Education 2), Yonkers (Education 4), and in Brooklyn at the Long Island College Hospital two years of collegiate work, including Chemistry (3), English (2), French (2), German (2), History (2), Philosophy (2), Physics (1), Psychology (1), Zoology (3).

The department also supervised the courses offered by the American Institute of Banking at 138 East 35th Street, New York. This supervision on the part of the University implied direct educational control in cooperation with the New York Chapter of the Institute. Instructors were appointed by the Trustees and were, therefore, officers of the University. Professor Robert Murray Haig, Associate Professor of Business Organization, represented the Director in general supervision. An extensive program of educational work was furnished for the benefit of the bank men and women of New York City. The instructors numbered.

The seventh year (1919-1920) of the Institute of Arts and Sciences, the non-academic division of Extension Teaching, was the most successful in its history. The Institute of Arts and Sciences enrolment reached 2,284, but before the season had really begun it became necessary to discontinue accepting new members because it was believed that the membership had reached the maximum that could be accommodated in the auditoriums of the University which are at present available. The Institute course of popular lectures was given as usual by officers of Columbia University and of other educational institutions and by publicists from home and abroad. The concerts and dramatic recitals were given by artists of first rank. The year was opened by an address by President Butler on "The Real Labor Problem." A notable feature of the year was the performance of Bach's Christmas Oratorio in Carnegie Hall under the direction of

Professor Walter Henry Hall. The total attendance of the various exercises for the year was 88,490.

Extension Teaching offers in Architecture the courses required for the Certificate of the School of Architecture. The registration in these courses in the first term was 176; in the second, 170. Courses in Design Architecture were attended by 39 students in the first term and 31 students in the second. Of the 77 major problems presented by the students in Design, 12 were specially commended and 64 were judged of passing grade. Two medals were awarded to our students by the Beaux Arts Institute of Design. Our students won also the Municipal Art Society Prize, the Emerson Prize and Pupin Prize.

Extension Teaching of Columbia University has hitherto always meant class exercises or lectures. This form of Extension Teaching was recognized as peculiarly Home Study appropriate to a university located in a great city. Hence for the past ten years the development of this department followed closely these lines. Nevertheless as Columbia is a national rather than a local institution, the demand from those living at a distance for educational opportunities became so pressing that the Administrative Board resolved to establish the home and community study courses. The foundations for this work were laid on a sound educational basis, emphasizing high standards in each subject offered. The subjects selected were believed to lend themselves more readily than others to effective study in the home and at a distance from the University. These included mathematics, history, philosophy, psychology, economics, government, sociology, English and American literature, short story and business. Languages were included only for students who had mastered in class work the fundamentals. During the past year the primary object has been to prepare suitable material in these subjects and that, very thoroughly. Students were enrolled early in the fall and numbered before the close of the year 145, classified as taking thirty-six courses. The organization of a course rests in the hands of the department under whose jurisdiction the subject matter falls. A member of

the department supervises the organization and administration of the course. This insures the maintenance of academic standards although these courses were organized without reference to academic recognition. Clear and definite statements were made that no credit would be given toward degrees. Here as in other parts of Extension Teaching, emphasis was placed upon intellectual attainment rather than upon securing academic recognition. Columbia University, therefore, is now using its great educational resources for the benefit of students at a distance as well as of those at its doors.

The organization of Home Study emphasizes the principle which was recognized when the Institute of Arts and Sciences was established by the Trustees, that is, that a university should furnish educational advantages which may not necessarily be stamped with the academic cachet. This brings me to another principle which is now generally accepted. Courses of academic standing, carrying credit, may be offered to the general student who is unable for any reason to enter the regular schools of the University. In my reports for the past few years, I have called attention to the unquestioned right of these students who had, in a more or less irregular manner completed with high standing the course of study for a degree to claim such degree at the hands of the University. Various plans have been suggested,—among them, the establishment of a University College—which would supply the machinery for granting this deserved academic recognition. It is gratifying to state that the report of the committee of the Council appointed to consider this question of granting the degree of B.S. in general studies to students not having such a degree proved to be a measure adapted to meet the needs of those whom we may designate as university undergraduates taking courses in Extension Teaching. There are in this department, worthy students who having completed a good secondary school career, for various legitimate reasons, have not found it possible to take the usual and recognized collegiate course. Many such students have completed a course identical with that which, if taken at Columbia College or Barnard College,

University  
Undergraduates

would have entitled them to a degree. At the present time the University cannot grant any degree whatever to such students.

The University Council has approved of the report of the special committee and has recommended to the Trustees the adoption of their plan for men only. As many of these students are women, it is a matter of serious regret that the faculty of Barnard College does not feel that it can approve of any change in the present arrangement whereby Barnard College is made responsible for the conferring of a non-professional bachelor's degree. The final action of the Trustees of Columbia University is eagerly awaited.

In May, 1920, you requested the Department of Extension Teaching to assume charge of Columbia House. As this house had been the center of university activity intended to further a knowledge of American ideals, this action has made the Department of Extension Teaching responsible for additional community service. We are ready and eager to do our part in this most important field as we recognize that in the various branches of our work, there are open many avenues whereby this subject may be brought to the attention of the public whom it is our desire to reach. May I say, first, that there are few who use the term "Americanization" who can say just what they mean or can describe its scope when defined. Hence, I would suggest that we not only should study this subject, but should determine just what part Columbia University should have in developing and extending the excellent purpose of those who are interested in strengthening the knowledge of American ideals and customs, not only among those who are natives of this country, but among the foreigners who are coming in such numbers to our shores. We must not further an exaggerated nationalism any more than we should encourage our people to undue interference with the affairs of other nations. Nevertheless, we should have a public duly informed in American history, American institutions, and the government of the nation, the state and the local organization. We should, also, help the foreigner to acquire a knowledge of English and train teachers for this work. Many American citizens have never read the Constitution of the

United States and very few know anything about the constitution of their own state or the charter of the city in which they live. I would suggest, therefore, that the subject be carefully investigated by a committee of university officers. The Department of Extension Teaching, guided by this committee, can offer lectures in the Institute of Arts and Sciences and publish suitable text books under Home Study. Such books should include handbooks for teaching English to foreigners and editions of the Constitution of the United States, set in convenient form and compass. Extension Teaching should also offer regular courses in government and the history of the United States adapted for this purpose. Columbia House can be made the center of whatever activity we may undertake and should remain the home of the library which has already been formed and which is unique in its scope and assignment.

During the past year considerable attention has been given to the subject of religious education and the assistance which the University may render for those who teach in the various schools of religion. So as to approach this in a manner appropriate to the situation, we cooperated with the New York City Sunday School Association in a series of courses for teachers. This organization is undenominational and non-sectarian and, therefore, offered the University an opportunity for cooperation. The Board of Education of New York has recently considered the plan of releasing the children for a brief period in the afternoon so that they might, with the consent of their parents, attend classes where they may receive religious instruction. The New York City Sunday School Association is interested in supplying teachers for such instruction and the courses offered at Columbia University will be of assistance in this respect. Such action is entirely consistent with the traditions of the University.

Considerable uncertainty and misunderstanding exist by reason of the use of the term "Extension Teaching," as describing the department of which this is a report. May I suggest the consideration of a new statutory designation and the formal

recognition of a Department of University Extension? A large part of the service which the department renders cannot consistently be designated as "Extension Teaching." The work of Extension Teaching has become so broad as to make the term obscure. An unfortunate tendency has arisen to speak of the work of other parts of the University by the statutory term "regular," and hence that which is assigned to Extension Teaching is regarded as irregular. It seems that this is due largely to a misunderstanding, for the courses that are offered in Extension Teaching have exactly the same standing as those that are offered in other parts of the University and should be recognized as equivalent, inasmuch as they are protected and maintained through the use of the same academic methods and safeguards as are employed in the various schools.

Respectfully submitted,

JAMES C. EGBERT,

*Director*

*June 30, 1920*

# SCHOOL OF BUSINESS

## REPORT OF THE DIRECTOR

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR:

As Director I have the honor to present herewith the fourth annual report of the School of Business for the academic year ending June 30, 1920.

I desire to record the fact that in the absence of Professors McBain and Seligman, the Trustees designated Professors R. C. McCrea and H. R. Seager to serve on the Administrative Board of the School of Business until June 30, 1920.

In a report of a School of the University which can boast of so brief an existence as four years, the details of registration are of particular importance and interest. The School is unique in that its courses of instruction are arranged in two undergraduate years and one graduate year. The registration is therefore distributed over this comparatively short period. Thus, during the past academic year there were 144 first year students, 48 second year students, and 24 students of the third or graduate year. The figures for the preceding year were 56 first year students, 26 second year students, and 8 students of the third or graduate year. Students from other parts of the University cared for in the School of Business numbered 294 in 1919-1920; in 1918-1919 they numbered 165. There were also 53 non-matriculated students not candidates for a degree, as compared with 36 in the preceding year.

The students in evening courses in business are under the educational direction of the instructors of the School of Business but are classified as students in Extension Teaching. They numbered in 1919-1920, 2845; in 1918-1919, 1219.

At the recent Commencement 15 students received the degree of Master of Science and 45 received the degree of Bachelor of Science in Business. The Secretarial Certificate for college graduates was conferred upon 12. The figures for 1919 were 7 Master of Science degrees, 13 Bachelor of Science degrees, and 7 Certificates in Secretarial Studies.

Degrees  
Conferred

These figures indicate a growth which the early history of the School foretold, although the years of war caused an interruption in the increase which was so confidently expected. The statistics of the year just passed freely justify extraordinary predictions in regard to the growth of the School.

The student body of the School of Business is composed of undergraduates of Columbia and other Colleges who have completed their sophomore year, and of graduate students, candidates for the Master of Science degree. They are drawn from all sections of the United States and from foreign countries. The very interesting distribution for the four years of the existence of the School is shown in the following table:

The Students

|                       | 1916-1917 | 1917-1918 | 1918-1919  | 1919-1920  |
|-----------------------|-----------|-----------|------------|------------|
| North Atlantic States | 33        | 40        | 76         | 149        |
| South Atlantic States | 4         | 4         | 5          | 20         |
| South Central States  | 4         | 2         | 11         | 16         |
| North Central States  | 11        | 10        | 11         | 38         |
| Western States        | 3         | 4         | 4          | 11         |
| Insular Possessions   | 0         | 2         | 1          | 7          |
| Foreign Countries     | 6         | 15        | 18         | 28         |
| <i>Total</i>          | <i>61</i> | <i>77</i> | <i>126</i> | <i>269</i> |

Registrations from New York State in the four years have been, respectively, 25, 28, 55, and 109.

These students are of exceptional capacity and devotion. They recognize that they are members of a professional school and are preparing for their life-work. Beyond this they have taken extraordinary interest in the welfare of the School and have organized an association, the object of which is to further the interests of Schools of Business in general, and in particular to make known to the business public the advantages of the



School at which they are students. With this purpose in view they published a pamphlet entitled "The University School of Business," treating of the origin, character, and purpose of such schools. Such enthusiasm on the part of the students is evidence of their appreciation of the School and a testimony to the satisfactory work accomplished by the staff.

In organizing and developing a school the most important consideration is the selection of those who are to form its corps

The Staff of instructors and leaders in investigation. These instructors determine the character of the School. They must be well trained, in sympathy with the aims of the School, progressive and broad-minded teachers. This presupposes a curriculum, the elements of which are clearly defined so that no unnecessary assignments of instructors shall be made. Useless and costly subdivisions and divisions must be avoided. These principles have entered into the selection of those who have already made our School distinguished among University Schools of Business of the country. The outline of general subjects to which we are adhering in the School includes, stated briefly, fundamental courses such as economics, psychology and theory of organization; business organization and administration, with allied courses in marketing, advertising and foreign trade; finance and banking, accounts and business mathematics; insurance; transportation; law; languages; industrial relations, and management.

The greatest need of the School at the present moment is a building which shall give proper accommodations for the rapidly increasing number of students. Both instructors and students are crowded into parts of the building of the School of Journalism, and the work of the School is now seriously menaced by this lack of suitable accommodations. By the courtesy of the Director of the School of Journalism a special room has been assigned to the library, but this is only a make-shift. We regard with dismay this delay in the construction of a building and are in great difficulty in endeavoring to furnish some substitute for the requisite quarters so essential to the conduct of the work of the School.

The New  
Building

We sincerely hope that before another year has elapsed the Trustees may feel justified in constructing the building so necessary to the well-being and development of the School.

The appropriation of the special fund presented to the School by Mr. Israel and the generosity of Professor Montgomery have enabled us to meet the immediate demands of the departments for books in this special field. As the School has been in existence only four years the number of books in the Library appropriate for a School of Business is exceedingly small. Those who desire to aid the School can be of assistance by providing funds for the purchase of books and equipment for the various departments. We should have a library of business books which would not only be of immediate help to the student but also of such a nature as to meet the needs of the business man who may desire to consult authorities on special subjects. Through the generosity of Mr. Edward D. Adams the School has been furnished with important books of reference and reports.

The following well-earned promotions have been authorized to take effect July 1, 1920: Professor Roy B. Kester to be Associate Professor of Accounting; Professor Thurman W. Van Metre to be Associate Professor of Transportation, and Dr. Ralph H. Blanchard to be Assistant Professor of Insurance. Frederick C. Mills has been appointed Assistant Professor of Business Organization; Dr. George W. Edwards lecturer in Banking; John E. Orchard instructor in Economic Geography; James C. Bonbright instructor in Finance; and Ralph T. Bickell instructor in Accounting. These appointments and promotions together with certain reappointments have added greatly to the efficiency of the School.

An important addition to the School is found in the assignment of Professor O. S. Morgan, Professor of Agriculture, to the staff. This transfer was accompanied by the appointment of Asher Hobson of the Department of Agriculture, Washington, D. C., to be Associate Professor of Agriculture. The significance of these appointments will be appreciated when the fact of the location of Columbia in a great city is con-

sidered. It is our ambition to employ this department and its work in Economic Agriculture particularly for the good of the people of the city. The investigation of the food supply and all the attendant problems will be the work undertaken by Professor Hobson who comes to us from an important position with the government in Washington after wide training and experience in preparation for his profession.

Another ambition which we are about to see gratified is the organization of a Bureau of Business Research. Provision has been made for the appointment of a Professor or Director. The purpose of the Bureau is the original investigation of certain trade problems as the cost of production, of distribution, and marketing and the training of those who can engage in such study. Training in working out such business problems is of vital importance to the student of business. Beyond this the service of such a bureau ought to be of value to the various trades which could well afford to provide the funds necessary for the conduct of such investigations.

Although in other reports I have called attention to the plan of organization of our School and its relation to other parts of the University, I desire to refer to this again at this time.

The newer professional schools resemble in their organization the Summer Session and Extension Teaching in that they are under the control of a Director and Administrative Board of seven members. This plan was adopted for the School of Business because it had proved most satisfactory as being most efficient and as economizing the time of the members of the staff.

The system whereby all members of the staff take part in faculty action and thus share in administrative duties becomes exceedingly burdensome inasmuch as it occupies the time of all instructors for purposes which can readily and conveniently be accomplished through a small board. Such an organization does not prevent the informal organization of the staff which may discuss and pass upon the educational policy of the School and may submit its recommendations to the Administrative

Board. It is noticeable that the historic Faculty of Columbia College has assigned its most important functions to the Committee on Instruction and frequently gathers in an informal way only as a staff of instructors.

The relation of members of the staff to other schools whose students may attend classes in the School does not differ in any respect from that of instructors in the schools with organized faculties. Thus, instructors who give graduate courses in the School of Business will be expected to share in the supervision of advanced students who select subjects in the School and will be called upon for aid in the examination of theses and dissertations prepared by students of other schools. In other words, the form of organization of the School does not affect the relation of the instructors to the University in general.

The staff of the School of Business holds informal meetings regularly every month. All members of the staff of the School regardless of rank may attend those meetings and take part in the discussions. Some of the business transacted and matters considered may well be mentioned here. The publication of a special number of the Alumni News was assigned to a committee of the staff. This number was issued on May 28, 1920, and consists of suitable articles describing the work of the School and brief accounts of the various members of the staff. The important matter of obtaining employment for students was carefully considered and a standing committee was appointed to aid in bringing those who desired service in communication with the members of the School who wished temporary positions for the summer and permanent employment. The library and its needs have been subjects of frequent consideration and an active committee has done much to supply the students with these important facilities. Special interest has been shown in the matter of standards, and steps have been taken to protect the School in this respect where they might be endangered by the rapid increase in numbers. Finally, the staff considered in a most thorough manner the organization of a Bureau of Research and recommended suitable action by the Administrative Board looking to the organization of this department.

The lack of student aid in the form of scholarships has been severely felt by the members of the School. All those interested in the School will therefore welcome with deep appreciation the action of the Trustees in making provision for scholarships and placing in the hands of the Director a sum of money to be used in cases deserving special consideration. This is most important in view of the increase in tuition fees.

I desire to refer again to the importance of Travelling Fellowships for those who will become teachers in the field of foreign trade and also for those who, becoming familiar with foreign countries, may be of service to those who desire to carry on trade with foreign lands. Such fellowships should be of an amount to justify a stay of two or three years in a foreign country.

Fellowships should also be established for those who are interested in special problems and desire to continue their work at the University in connection with the Research Bureau. It is just at this point that the School may be of service to the business world, but such service cannot be rendered unless appropriate funds are provided for research and for laboratory equipment, such as business reports and mechanical devices. Here, as at other University Schools of Business, the science of trade and commerce must be organized and studied, and this is our function, to establish this science and justify the claim that business is a profession.

Respectfully submitted,

JAMES C. EGBERT,  
*Director*

*June 30, 1920*

The year has been so crowded with necessary medical work that we have been as yet unable to classify the various conditions treated.

To one phase of our work we have given much thought and study, considering as we do that it promises to be one of the most helpful branches of our health supervision.

A detailed description of this compulsory health supervision plan was outlined in the annual report of 1918-1919. As planned we have devoted two hours daily to cases showing the need of special attention either through the examination of the family physician as recorded on Form B, or through the physical examination given by the Department of Physical Education. All of these students have been re-examined by the staff of the University Physician and they have been placed under appropriate treatment in charge of the family physician, a hospital, or the University Medical Office.

Health  
Supervision

Throughout the year the Dean of Columbia College has sent to this office men who have fallen below grade in their studies or who have shown a condition that might indicate a possible physical handicap. At the completion of each examination a report has been sent to the Dean's office.

In order that all of these special cases might receive a complete uniform medical examination, and also that we might have a detailed record for future reference, an examination blank, entitled Form C, has been compiled. All special examinations are recorded upon this blank. It is fairly complete and specific in order that through it at any future time we may trace both new and old conditions.

Now that the College has made it practically compulsory for the undergraduates to live in the dormitories, and since we have increased our dormitory facilities by the purchase of the Claremont Avenue buildings, it becomes necessary to organize a more spacious and better equipped infirmary. An infirmary is a vital part of every dormitory system, and the Sanitary Code requires such provision for the protection of the residents of all institutions. At the present time our infirmary system is scattered. Each

Infirmary  
System

building has its own infirmary suite. Such a system is expensive and unsatisfactory from the standpoint of the patient and of the University. Our desire is to work for centralization of the infirmary organization. With the expanding dormitory system it will be necessary for us to provide added space for infirmary beds. It would seem best ultimately to set aside a large apartment on the top floor of one of the Claremont Avenue buildings as a central infirmary where all cases of illness from all of the men's dormitories may be sent. A similar central infirmary should be maintained for all women students of Barnard College and of the University. Such a plan would simplify the work of the visiting nurse and of the matron, who could care for the needs of the patients with much greater economy of time and energy. It would also lessen the present difficulty of serving food to ill students. The first step in centralization for the coming year is the combination in Hartley Hall of the Livingston and Hartley Hall infirmaries. The Claremont Avenue buildings will have an infirmary for men in Tompkins Hall. The infirmary for women living in the Claremont Avenue buildings will be in Brooks Hall. During the coming year no student confined to bed will be permitted to remain in his or her room. All cases of illness must be cared for in the infirmaries. Before the close of another year we hope that plans may be complete for the establishment of two central infirmaries, one for men and one for women.

The appointment of a visiting nurse fills a need that for several years has been urgent. During the past year we have organized, under Miss Williams, efficient methods of follow-up work among sick students that will increase greatly the effectiveness of the office consultations. The visiting nurse has called upon all cases that were sent home ill from the office, and she has assisted the patient and the family to follow out instructions accurately and intelligently. When necessary she has secured, through the University Branch of the Henry Street Settlement, nursing care for ill students. Miss Williams has also attended to making arrangements at the various hospitals for students

Visiting  
Nurse

who needed special medical or surgical care, and has visited cases sent to the hospital. She has been of great assistance in protecting our students by making sure that sanitary regulations were enforced in apartments where cases of contagious disease were being treated. The visiting nurse assumes full direction of the infirmaries for men, and visits these infirmaries not less than twice daily. Complete records of all visits made by the visiting nurse are filed with the University Medical Officer. She brings into closer contact and understanding the home, the private physician, the infirmaries, the hospital, and the office of the University Physician.

Since 1912 this office has continuously been interested in the needs of the University community for a Commons that would serve the best health and social interests of the students. For the past two years we have had Commons a service that is in keeping with the educational responsibility of our University. The employees have caught the spirit from the management and they have taken equal pride in keeping up the standards of the sanitary condition of the Commons. When we consider that the saliva-borne infections are probably responsible for the majority of early deaths, we can begin to appreciate what a clean food service means to the health of our student body. The careful sterilization of dishes in itself is probably responsible for the saving of health through the prevention not only of mild but of serious infections among the patrons of the Commons. We cannot speak too forcibly on this point of kitchen and dining room cleanliness. We must by example educate the mass of men and women to an appreciation of the possible dangers of public eating houses. The compulsory sterilization of dishes in all restaurants would go far toward preventing the spread of many infectious diseases that have a high mortality.

Throughout the past year we have had much less serious illness than usual. We have had to call upon the hospitals of the city for assistance less perhaps than in any year since 1914. This is interesting since the office consultations and home illnesses have been decidedly more numerous than in previous years. The increased office practice is explained,



however, in part by the fact that the appointment of Dr. William H. Boese and Dr. Harold B. Keyes as assistants to the University Medical Officer has greatly augmented the capacity of the office to treat more students.

The reorganization of the work of the University Physician, necessitated by added responsibilities during 1919-1920, has made the year a strenuous one for the members of the staff. The Medical Officer desires to take this opportunity to thank them and to express to them his appreciation of their loyal support and of their united and untiring efforts to make the medical service effective in every way.

Respectfully submitted,

WM. H. McCASTLINE,

*University Medical Officer*

*June 30, 1920*

## REPORT OF THE SECRETARY

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR:

I beg to submit for purposes of record and of suggestion three or four matters that have been emphasized by the happenings of the year just closed. The appendices to this report are deserving of careful attention.

The handling of written requests for information in regard to admission to the several schools of Columbia University has been very carefully organized along lines laid out several years ago by former Dean Correspondence Keppel when he was Secretary of the University.

All letters, under a ruling of President Low, come in the first instance, when not addressed to any individual by name, to the Office of the Secretary where an immediate answer is given. If the communication calls for more than a Bulletin of Information or some simple answer, an acknowledgment and statement of reference is sent and the letter is forwarded to the Director of University Admissions for detailed reply.

It is the aim of the Office to send a reply on the day of receipt of the inquiry, and but rarely is an answer delayed longer than twenty-four hours. Experience has made possible the drawing up of a form of printed reply which seems on the whole to meet with the approval of correspondents. This printed reply consists of a twelve-page pamphlet of pocket size containing in a series of fifty-five numbered paragraphs the answers to typical questions concerning the organization of the University and its several schools, examinations, fees, scholarships, student employment, loan funds, residence, student activities and the like. The last page of the folder contains a complete list of announcements and application forms so that if it is necessary for the correspondent to make a second

request he can do so in exact terms. All letters in regard to admission are sent to the Director of University Admissions as soon as answered, the Office of the Secretary retaining a card memorandum with the name and address, date and nature of inquiry and reply, and Bulletin sent. This system weeds out the routine letters and enables the Director of University Admissions to give his attention to those applicants who need personal attention, and he in turn passes on to the appropriate Dean or Director those letters in which he thinks these several officers may wish to take a personal interest.

The Office of the Secretary makes every endeavor to secure as a part of its record the date of possible entry of each correspondent. The record cards are examined each year and a letter is sent to inquirers from a distance and to those who, from their school and college records, would seem likely to make desirable additions to the student body of Columbia University. On the basis of the reply or non-reply to this letter the name is continued or removed from the list. The list is again weeded out after each registration period.

The following record indicates the size and importance of the correspondence with prospective students, and may also indicate that the method of handling the correspondence has not been without its effect on the growth of the University.

From 1909 to 1918 an account of the record cards was kept in such a way that after the list had been thinned out following registration in September the size of the list with which the academic year was started was known. The figures for that period are as follows:

|                            |        |
|----------------------------|--------|
| November 1, 1909 . . . . . | 11,390 |
| November 1, 1910 . . . . . | 15,403 |
| November 1, 1911 . . . . . | 17,531 |
| November 1, 1912 . . . . . | 23,414 |
| November 1, 1913 . . . . . | 24,351 |
| November 1, 1914 . . . . . | 32,869 |
| November 1, 1915 . . . . . | 36,307 |
| November 1, 1916 . . . . . | 28,152 |
| November 1, 1917 . . . . . | 28,985 |
| November 1, 1918 . . . . . | 21,315 |

The count of new correspondents year by year from 1910 to 1919 is as follows:

|  |        |
|--|--------|
| Number of new inquirers July 1, 1910-June 30, 1911 . . . . . | 12,837 |
| Number of new inquirers July 1, 1911-June 30, 1912 . . . . . | 12,967 |
| Number of new inquirers July 1, 1912-June 30, 1913 . . . . . | 13,987 |
| Number of new inquirers July 1, 1913-June 30, 1914 . . . . . | 16,749 |
| Number of new inquirers July 1, 1914-June 30, 1915 . . . . . | 15,062 |
| Number of new inquirers July 1, 1915-June 30, 1916 . . . . . | 16,237 |
| Number of new inquirers July 1, 1916-June 30, 1917 . . . . . | 13,949 |
| Number of new inquirers July 1, 1917-June 30, 1918 . . . . . | 10,316 |
| Number of new inquirers July 1, 1918-June 30, 1919 . . . . . | 14,927 |
| Number of new inquirers July 1, 1919-June 30, 1920 . . . . . | 24,136 |

After 1913 the figures do not include the Summer Session and Extension Teaching inquiries.

To meet the need pointed out in the Report of the Secretary for the year 1918-1919 the Trustees, in January, 1920, made provision for a Residence Bureau to assist in the housing of those students not cared for by the University residence halls. The Bureau was placed under the direction of the Secretary of the University and was organized under the direct charge of Mrs. Susan H. Bliss.

The Bureau registers available accommodations in the neighborhood of the University. Before placing addresses on its list, however, the Bureau investigates the houses, the housekeepers, and the general living situation. Those applicants for residence hall accommodations whom it is not possible to accommodate, are referred to the Residence Bureau, and the Residence Bureau suggests several addresses that will meet the requirements of the individual inquirer.

The Residence Bureau's first service was for the Summer Session of 1920. Anticipating a large registration the Bureau sought out and listed accommodations for about 3,500 individuals. The pressure under which the Bureau works during the short registration period makes the keeping of a statistical record of its activity impracticable, but so far as reports have come in the situation was met satisfactorily. The Bureau was greatly indebted to Miss Lucetta Daniell, Professor Katherine Reiley and Professor Coss for helpful advice in preparing for the Summer Session.

As the University draws continually more and more largely from far away parts of the country, the housing problem becomes increasingly important, and experience shows unmistakably the desirability of providing for as many students as possible in residence halls directly under the control of the University. Arbitrary discrimination on the part of landlords against tenants who sublet rooms to students is making it difficult to find in the neighborhood of the University satisfactory rooms at reasonable prices. This situation will be relieved when the University comes into complete control of the apartment houses that it has recently purchased for use as residence halls.

Columbia University has long recognized the importance of appointments work but the pressure for funds for purely educational needs has thus far prevented the granting of more than nominal financial support to this activity. The rapid growth of the University is emphasizing more and more the need for a well supported and strongly organized Appointments Office. The lack of such an office results in the University's being represented to the public rather as a series of schools and individuals than as a University. The School of Law has many men to place, so have the Schools of Mines, Engineering, Chemistry, Architecture, Journalism, and Business; and the College itself has many men going into business each year. The present Appointments Office, consisting of two people, operating on a budget of \$4,200, cooperates as best it can with all these schools while carrying on at the same time the very important work of securing employment for students. Obviously, the office is always on the defensive, doing as many as possible of the tasks that come to it.

An Appointments Office with a budget of \$12,000 or \$15,000 in charge of a man of the grade of assistant or associate professor, could do much that would strengthen the University's relations with students, alumni, and the teaching and business worlds. Such an office would be in close and sympathetic touch with alumni in teaching positions, would be able to assist materially Columbia students desiring to go into teaching

and would be of the greatest helpfulness to college executives in search of candidates for positions in their respective institutions. Such an office would be in close and sympathetic touch with Columbia men in the business world and could with their help inspire analyses of the abilities demanded by the several industrial and business activities, with a view to applying the principles of personnel management in placing Columbia graduates in business positions. Such an office could apply the principles involved in vocational guidance so as to help students to fit themselves for practical life in the best way possible. Much of this is now done by individual officers and some of it must continue to be done by them, but a well equipped central office could systematize this whole activity so as to relieve department heads and individual officers of much drudgery and yet retain the personal element so vital in work of this kind.

An efficient Appointments Office may have much said about it, pro and con, as a paternalistic enterprise, but the view that impels its mention in this report is a purely selfish one—the unabashed desire to place well trained, well selected Columbia men in important teaching and business positions throughout the world, for the benefit of Columbia herself and of future generations of Columbia men.

A number of activities with which the Secretary of the University has contact and in some instances direct control, have a community of interest which would make it exceedingly desirable to locate them under the same roof and under properly correlated direction that would lead to cooperative administration, and thereby increase the effectiveness of all of the activities.

This group consists of the Alumni Records, Appointments and Employment work, and the Department of Public Information,—all of which are under the supervision of the Secretary of the University,—and of the Alumni Federation, the Alumni Fund, and the Alumni News.

To unite without merging these activities, all of which are in a measure in that twilight zone of mingled university and

alumni responsibility, would make first of all for strength, and second, for economy.

If at any time room in East Hall becomes available, I recommend that all of these activities be located on the second and third floors of that building, space now occupied in part by some of these organizations.

In closing I wish to express my appreciation of the hearty cooperation of the office staff.

Respectfully submitted,

FRANK D. FACKENTHAL,

*Secretary*

*June 30, 1920*

## APPENDIX I

### STATISTICS REGARDING THE TEACHING AND ADMINISTRATIVE STAFF FOR THE ACADEMIC YEAR 1919-1920

#### SUMMARY OF OFFICERS

|   | <i>1918-19</i> | <i>1919-20</i> |
|---|----------------|----------------|
| Professors . . . . .  | 175            | 180            |
| Associate Professors . . . . .  | 53             | 70             |
| Assistant Professors . . . . .  | 113            | 121            |
| Clinical Professors . . . . .   | 20             | 20             |
| Associates . . . . .  | 47             | 67             |
| Instructors . . . . .   | 193            | 250            |
| Curators . . . . .  | 2              | 3              |
| Lecturers . . . . .   | 39             | 40             |
| Assistants . . . . .  | 54             | 67             |
| Clinical Assistants . . . . .   | 94             | 84             |
| <hr/>   |                |                |
| University Officers of Instruction . . . . .  | 790            | 902            |
| Other Instructors in Teachers College . . . . .   | 153            | 158            |
| Other Instructors in College of Pharmacy . . . . .  | 10             | 6              |
| Extension Teaching Officers not included above . . . . .  | 127            | 278            |
| <hr/>   |                |                |
| Total . . . . .   | 1,080          | 1,344          |
| *Administrative Officers . . . . .  | 37             | 39             |
| *Other Administrative Officers, Barnard College,<br>Teachers College, and College of Pharmacy . . . . . | 14             | 18             |
| <hr/>   |                |                |
| Total . . . . .   | 1,131          | 1,401          |
| Emeritus Officers . . . . .   | 15             | 17             |
| Other officers not in active service . . . . .  | 13             | 10             |
| <hr/>   |                |                |
| Total . . . . .   | 1,159          | 1,428          |

\*Excluding those who are also teaching officers and included above.



## VACANCIES

By Death, Resignation, Retirement, or Expiration of Term of Appointment, occurring, unless otherwise indicated, on June 30, 1920

*Professors and Administrative Officers*

ALON BEMENT, Ph.D., Assistant Professor of Fine Arts in Teachers College  
WILHELM A. BRAUN, Ph.D., as Director of the Columbia House  
FRANCIS MARION BURDICK, LL.D., Dwight Professor Emeritus of Law  
(died June 3, 1920)

GEORGE F. FISHER, Bursar retired (died November 20, 1919)

EDWARD K. HAYT, Assistant Registrar and Assistant Bursar at the Medical School (January 1, 1920)

CARL W. LARSON, Ph.D., Assistant Professor of Agriculture

ANATOLE LE BRAZ, D. ès L., Professor of French Literature

GEORGE M. LEFFERTS, M.D., Emeritus Professor of Laryngology (died September 21, 1920)

JAMES MACLAY, Ph.D., Professor of Mathematics (died November 28, 1919)

ARTHUR H. MERRITT, D.D.S., Professor of Oral Pathology

GEOFFREY F. MORGAN, A.M., Secretary of Teachers College (October 1, 1920)

ALFRED J. MOSES, Ph.D., Professor of Mineralogy (died February 27, 1920)

CARL C. PLEHN, LL.D., Exchange Professor in the Department of Economics

VIRGIL PRETTYMAN, A.M., Pd.D., Principal of the Horace Mann High School

EDWARD M. SALT, Ph.D., Assistant Professor of Politics

ALBERT H. STEVENSON, D.D.S., Professor of Preventive Dentistry (died July 28, 1920)

EDGAR H. STURTEVANT, Ph.D., Assistant Professor of Classical Philology

LAVINIA TALLMAN, A.M., Assistant Professor of Religious Education in Teachers College (died July 16, 1920)

WILBUR WARD, M.D., Associate Professor of Obstetrics and Gynecology (April 1, 1920)

*Associates*

REV. JOHN DOUGLAS ADAM, D.D., Religion (Barnard College)

FREDERICK T. DAWSON, Physical Education (December 1, 1919)

JOHN VANCE HEWITT, LL.B., Law

LINNAEUS E. LA FETRA, M.D., Diseases of Children (October 1, 1920)

GERHARD R. LOMER, Ph.D., Journalism (January 1, 1920)

GABRIEL A. LOWENSTEIN, Ph.D., Biological Chemistry

ROBERT E. MACALARNEY, A.B., Journalism

HERMAN O. MOSENTHAL, M.D., Medicine

MELACH J. NUSIM, Mech.E., Mechanical Engineering

*Instructors*

- L. HERBERT ALEXANDER, Ph.D., Romance Languages and Literatures  
(Barnard College), (died October 13, 1920)  
GEORGE C. ANDREWS, JR., M.D., Neurology  
GEOFFROY ATKINSON, Ph.D., French  
MURRAY H. BASS, M.D., Diseases of Children  
ROBERT W. BOLWELL, A.M., English  
LOUIS A. BONVICINO, M.D., Neurology  
ROBERT BURLINGHAM, M.D., Medicine  
ARTHUR M. BUSWELL, Ph.D., Chemistry  
CHARLES E. CARR, M.D., Medicine  
FREDERICK H. DIETERICH, M.D., Pathology (April 1, 1920)  
BERNARD O. DODGE, Ph.D., Botany (February 1, 1920)  
C. EVANGELINE FARNEHAM, A.M., Romance Languages and Literatures  
(Barnard College)  
LEE H. FERGUSON, M.D., Medicine  
GEORGE W. GARDNER, D.D.S., Prosthetic Dentistry  
DONALD GORDON, M.D., Surgery  
JAMES S. GREEN, JR., A.M., English  
MARY A. GRIGGS, Ph.D., Chemistry (September 1, 1920)  
FRANK M. HALLOCK, M.D., Neurology  
GEORGE V. KENDALL, A.M., English  
EUGENE KLEIN, M.D., Surgery  
KARL KULLMANN, Chemistry (February 14, 1920)  
SYLVESTER R. LEAHY, M.D., Neurology (January 31, 1920)  
PHILIP J. LIPSETT, M.D., Surgery  
ALEXANDER T. MARTIN, M.D., Pharmacology and Medicine  
FRANK L. MELENEY, M.D., Surgery  
ROBERT J. MOORE, A.M., Chemistry  
FREDERICK K. MORRIS, A.M., Geology  
HERMANN J. MULLER, A.M., Zoology  
LOUIS NEUWELT, M.D., Surgery (January 1, 1920)  
HESTER M. RUSK, A.M., Botany (Barnard College)  
JESSE F. SAMMIS, M.D., Diseases of Children (December 1, 1919)  
WALTER H. SAMMIS, E.E., Electrical Engineering  
JOHN W. SCHERER, D.D.S., Dentistry  
OSCAR M. SCHLOSS, M.D., Diseases of Children (January 31, 1920)  
ABRAM SKVERSKY, M.D., Neurology  
HAROLD C. STUART, M.D., Medicine  
SAMUEL SWIFT, M.D., Obstetrics and Gynecology  
FENTON TAYLOR, M.D., Anatomy and Surgery  
CLARENCE P. THOMAS, M.D., Medicine  
CLAYTON T. ULREY, Ph.D., Physics  
JOSEPH S. WHEELWRIGHT, M.D., Surgery  
GERALD T. WILKINSON, A.M., French  
FRANK A. ZASTROW, D.D.S., Operative Dentistry

*Lecturers*

JOHN B. ANDREWS, Ph.D., Social Legislation (May 31, 1920)  
WILLARD T. BARBOUR, LL.B., A.M., Carpentier Lecturer on English  
Legal History (died March 2, 1920)  
HÉLÈNE BIÉLER, Romance Languages and Literatures (Barnard College)  
M. L. LEVY BRUHL, Philosophy  
CHARLES GILBERT CHINARD, Philosophy  
HARRY T. COSTELLO, Ph.D., Philosophy  
FLOYD M. CRANDALL, M.D., Medical Ethics (died November 19, 1919)  
HARLOW S. PERSON, Ph.D., Business Organization  
WILLIAM POPPER, Ph.D., Gustav Gottheil Lecturer in Semitic Languages  
EMIL L. POST, Ph.D., Mathematics  
GERALD J. PYLE, A.M., Philosophy  
WILLIAM H. STEINER, A.M., Banking  
FRANK A. STRAUSS, Ph.D., Chemical Engineering  
ANNA P. YOUNGMAN, Ph.D., Banking

*Curators*

RICHARD F. BACH, A.B., Architecture (December 1, 1919)

*Assistants*

JOHN W. S. BRADY, M.D., Medicine  
AMY M. BURT, A.M., History (Barnard College)  
THOMAS P. CLENDENIN, B.S., Physics  
RALPH L. EVANS, A.B., Chemistry  
PAUL M. GIESY, A.M., Cancer Research (March 15, 1920)  
WILLARD F. GREENWALD, B.S., Chemistry  
MARY R. M. GRIFFITHS, A.B., History (Barnard College)  
L. GRANT HECTOR, A.B., Physics (October 1, 1920)  
VICTOR I. ISAACSON, A.M., Biological Chemistry  
MRS. GRACE H. JOHNSON, A.B., Zoology (Barnard College)  
MAURICE KEMP, M.D., Diseases of Children  
JOSEPH R. LATHAM, M.D., Medicine  
DONALD S. MACKAY, A.B., B.D., Philosophy  
LAZARUS MARCUS, M.D., Medicine  
WILLIAM J. MERSEREAU, M.D., Diseases of Children  
LOUIS C. SCHROEDER, M.D., Diseases of Children  
AURA E. SEVERINGHAUS, A.M., Zoology  
ROLAND P. SOULE, Chem.E., Chemical Engineering  
WILBUR W. STEARNS, M.D., Medicine  
ROBERT F. E. STIER, M.D., Pathology (March 1, 1920)  
LEWI TONKS, A.B., Physics  
MARTHA L. WASHBURN, A.B., Chemistry  
CHARLES E. WIGTON, A.B., Physics  
PAUL G. WINDT, A.B., Physics

## PROMOTIONS

To take effect, unless otherwise indicated, July 1, 1920

*Professors and Administrative Officers*

| <i>Name</i>                | <i>From</i>         | <i>To</i>           | <i>Subject</i>                             |
|----------------------------|---------------------|---------------------|--|
| ALBIN H. BEYER, C.E.       | Associate           | Associate Professor | Civil Engineering                          |
| RALPH H. BLANCHARD, Ph.D.  | Instructor          | Assistant Professor | Insurance                                  |
| THOMAS H. BRIGGS, Ph.D.    | Associate Professor | Professor           | Education (Teachers College)               |
| JOHN W. CUNLIFFE, D.Lit.   | Associate Director  | Director            | School of Journalism                       |
| WALTER H. EDDY, Ph.D.      | Assistant Professor | Associate Professor | Physiological Chemistry (Teachers College) |
| ADOLPH ELWYN, A.M.         | Associate           | Assistant Professor | Anatomy                                    |
| AUSTIN P. EVANS, Ph.D.     | Instructor          | Assistant Professor | History                                    |
| EDWARD J. GRANT, A.B.      | Acting Registrar    | Registrar           |  |
| WILLIAM K. GREGORY, Ph.D.  | Assistant Professor | Associate Professor | Vertebrate Palaeontology                   |
| ROY B. KESTER, Ph.D.       | Assistant Professor | Associate Professor | Accounting                                 |
| LEA MCL. LUQUER, Ph.D.     | Assistant Professor | Associate Professor | Mineralogy                                 |
| FREDERICK C. MILLS, Ph.D.  | Instructor          | Assistant Professor | Business Organization                      |
| WILLIAM P. MONTAGUE, Ph.D. | Associate Professor | Professor           | Philosophy (Barnard College)               |
| J. HOWARD MUELLER, Ph.D.   | Instructor          | Assistant Professor | Bacteriology                               |
| DAVID S. MUZZEY, Ph.D.     | Associate Professor | Professor           | History (Barnard College)                  |
| THOMAS R. POWELL, Ph.D.    | Associate Professor | Professor           | Constitutional Law                         |

|                             |           |           |             |
|-----------------------------|-----------|-----------|-------------|
| FREDERICK PRIME, JR., M.D.  | Associate | Assistant | Cancer      |
|                             |           | Professor | Research    |
| ALBERT H. STEVENSON, D.D.S. | Assistant | Professor | Preventive  |
|                             | Professor |           | Dentistry   |
| LA RUE VAN HOOK, Ph.D.      | Associate | Professor | Greek and   |
|                             | Professor |           | Latin       |
|                             |           |           | (Barnard    |
|                             |           |           | College)    |
| THURMAN W. VAN METRE, Ph.D. | Assistant | Associate | Transporta- |
|                             | Professor | Professor | tion        |

*Associates*

|                               |            |           |             |
|-------------------------------|------------|-----------|-------------|
| RANSOM S. HOOKER, M.D.        | Instructor | Associate | Surgery     |
| HUBERT S. HOWE, M.D.          | Instructor | Associate | Neurology   |
| EDMUND R. P. JANVRIN, M.D.    | Instructor | Associate | Medicine    |
| JOHN E. MCWHORTER, M.D.       | Instructor | Associate | Surgery     |
| HENRY A. RILEY, M.D.          | Instructor | Associate | Neurology   |
| MAURICE J. SITTENFIELD, M.D.  | Instructor | Associate | Pathology   |
| ARTHUR P. STOUT, M.D.         | Instructor | Associate | Surgery     |
| FREDERICK T. VAN BEUREN, M.D. | Instructor | Associate | Surgery     |
| HERBERT B. WILCOX, M.D.       | Instructor | Associate | Diseases of |
|                               |            |           | Children    |

*Instructors*

|                               |           |            |             |
|-------------------------------|-----------|------------|-------------|
| ROBERT H. BOWEN, A.M.         | Assistant | Instructor | Zoology     |
| HORACE N. CORYELL, Ph.D.      | Curator   | Instructor | Geology     |
| A. GORDON DEWEY, A.M.         | Assistant | Instructor | Government  |
| ELEANOR DOTY                  | Lecturer  | Instructor | Physical    |
|                               |           |            | Education   |
|                               |           |            | (Barnard    |
|                               |           |            | College)    |
| HORACE L. FRIESS, A.B.        | Lecturer  | Instructor | Philosophy  |
| ALEXANDER S. GALAJIKIAN, A.B. | Lecturer  | Instructor | Physics     |
| B. WALLACE HAMILTON, M.D.     | Assistant | Instructor | Diseases of |
|                               |           |            | Children    |
| VICTOR K. LAMER, A.B.         | Research  | Instructor | Chemistry   |
| (September 1, 1920)           | Assistant |            |             |
| STERLING P. LAMPRECHT, Ph.D.  | Lecturer  | Instructor | Philosophy  |
| THEODORE C. TAYLOR, Ph.D.     | Lecturer  | Instructor | Chemistry   |
| GEORGE H. WALDEN, JR., M.S.   | Assistant | Instructor | Chemistry   |

## CHANGES OF TITLE

| <i>Name</i>                     | <i>From</i>        | <i>To</i>           |
|---------------------------------|--------------------|---------------------|
| SETH D. BINGHAM, A.B., Mus.Doc. | Associate in Music | Instructor in Music |

|                               |                                   |                               |
|-------------------------------|-----------------------------------|-------------------------------|
| RALPH S. BOOTS, Ph.D.         | Instructor in Politics            | Instructor in Government      |
| DOROTHY BREWSTER, Ph.D.       | Instructor in English             | Lecturer in English           |
| GASTON A. CARLUCCI, M.D.      | Instructor in Surgery             | Assistant in Surgery          |
| DONALD L. CLARK, A.M.         | Instructor in English             | Lecturer in English           |
| GEORGE W. EDWARDS, Ph.D.      | Instructor in Banking             | Lecturer in Banking           |
| GRACE H. GOODALE, A.M.        | Instructor in Classical Philology | Instructor in Greek and Latin |
| ELMER D. GRAPER, A.M.         | Instructor in Politics            | Instructor in Government      |
| RAYMOND W. LEWIS, M.D.        | Instructor in Surgery             | Assistant in Surgery          |
| WILLIAM B. LONG, M.D.         | Associate in Cancer Research      | Associate in Roentgenology    |
| ARTHUR W. MACMAHON, A.M.      | Instructor in Politics            | Instructor in Government      |
| DUDLEY H. MORRIS, M.D.        | Instructor in Surgery             | Assistant in Surgery          |
| MRS. EMILY JAMES PUTNAM, A.B. | Associate in History              | Associate in Greek and Latin  |
| RUPERT TAYLOR, Ph.D.          | Instructor in English             | Lecturer in English           |
| RAYMOND W. WEAVER, A.M.       | Associate in English              | Instructor in English         |

## APPOINTMENTS

To take effect, unless otherwise indicated, July 1, 1920

*Professors and Administrative Officers*

| <i>Name</i>   | <i>Office</i>   |
|---|---|
| GRACE A. DAY, A.M.                                  | Assistant Professor of Elementary Education in Teachers College |
| WILLIAM B. DINSMOOR, S.B.Arch.<br>(January 1, 1920) | Librarian of Avery Library                                      |
| EDWARD S. EVENDEN, Ph.D.                            | Assistant Professor of Education in Teachers College            |
| ROBERT H. FIFE, JR., Ph.D.                          | Gebhard Professor of Germanic Languages and Literatures         |

|   |  |
|---|--|
| ALFRED C. FONES, D.D.S.<br>(October 1, 1920)        | Professor of Preventive Dentistry  |
| WILLIAM C. FOOTE, Major U.S.A.<br>(August 11, 1920) | Assistant Professor of Military Science<br>and Tactics                     |
| EDWARD B. FOX, B.S.                                 | Assistant Registrar of the University                                      |
| ARTHUR I. GATES, Ph.D.                              | Assistant Professor of Education in<br>Teachers College                    |
| MILO B. HILLEGAS, Ph.D.                             | Professor of Education in Teachers<br>College                              |
| ASHER HOBSON, A.M.                                  | Associate Professor of Economic<br>Agriculture                             |
| FREDERICK MILLER, C.E.<br>(February 1, 1920)        | Assistant Superintendent of Buildings<br>and Grounds at the Medical School |
| ANNIE E. MOORE, A.M.                                | Assistant Professor of Elementary<br>Education in Teachers College         |
| GEOFFREY F. MORGAN, A.M.                            | Secretary of Teachers College  |
| CARL C. PLEHN, LL.D.<br>(February 1, 1920)          | Exchange Professor in the Depart-<br>ment of Economics                     |
| EDWARD H. RAYMOND, JR., D.D.S.                      | Professor of Oral Pathology  |
| HAROLD O. RUGG, Ph.D.                               | Associate Professor of Education in<br>Teachers College                    |
| THOMAS W. SALMON, M.D.<br>(January 1, 1920)         | Associate Professor of Psychiatry  |
| JAMES CLAYTON SHARP, M.D.                           | Assistant Professor of Dental Histol-<br>ogy and Embryology                |
| CAROLINE F. E. SPURGEON, Litt.D.                    | Visiting Professor of English in<br>Barnard College                        |
| JAMES H. TUFTS, LL.D.                               | Visiting Professor of Philosophy   |

*Associates*

|   |  |
|---|--|
| C. A. BECKETT<br>(October 1, 1920)            | Mechanical Engineering                                 |
| HARVEY W. CORBETT, B.S.                       | Architecture   |
| WALTER P. EATON, A.B.<br>(February 1, 1920)   | Journalism   |
| ALBERT E. FLANAGAN                            | Design   |
| J. GARDNER HOPKINS, M.D.                      | Roentgenology  |
| CATHERINE R. KELLEY, M.D.                     | Medicine   |
| KENNETH LORD                                  | Journalism   |
| CAROLINA MARCIAL-DORADO, A.M.                 | Romance Languages and Literatures<br>(Barnard College) |
| MELACH J. NUSIM, Mech.E.<br>(October 1, 1919) | Mechanical Engineering                                 |
| FREDERICK PARKER, JR., M.D.                   | Bacteriology   |
| REV. RALPH B. POMEROY, A.M.,<br>B.D.          | Religion (Barnard College)                             |

|   |            |
|---|------------|
| MERRYLE S. RUKEYSER<br>(November 1, 1920) | Journalism |
| WILLIAM E. WELD, Ph.D.                    | Economics  |
| ALLEN S. WILL                             | Journalism |

*Instructors*

|   |                        |
|---|------------------------|
| GILBERT C. ANDERSON, M.D.                       | Pharmacology           |
| THADDEUS HOYT AMES, M.D.                        | Neurology              |
| HERBERT M. BERGAMINI, M.D.                      | Surgery                |
| RALPH T. BICKELL, B.S.                          | Accounting             |
| GEORGE A. BLAKESLEE, M.D.                       | Neurology              |
| JAMES C. BONBRIGHT                              | Finance                |
| LEROY E. BOWMAN, A.B.                           | Social Science         |
| KATHRYN E. BRIWA, A.B.<br>(September 1, 1920)   | Chemistry              |
| CHARLES TERRY BUTLER, M.D.<br>(October 1, 1920) | Surgery                |
| EDWARD BYRON, M.E.                              | Physics                |
| LOUIS CARP, M.D.                                | Surgery                |
| THOMAS F. CLONEY, D.D.S.<br>(October 1, 1920)   | Operative Dentistry    |
| CARLOS CONTRERAS                                | French                 |
| WALTER A. CURRY, E.E.                           | Electrical Engineering |
| EDGAR H. DAVIS, A.M.                            | English                |
| GAETANO DE YOANNA, M.D.<br>(January 1, 1920)    | Surgery                |
| JOHN W. DICKINSON, D.D.S.<br>(October 1, 1920)  | Prosthetic Dentistry   |
| JESSE DOUGLAS, B.S.                             | Mathematics            |
| FREDERICK H. DUTCHER, M.E.                      | Mechanical Engineering |
| WALDO B. FARNUM, M.D.<br>(November 1, 1920)     | Medicine               |
| RICHARD S. FARR, M.D.                           | Orthopedic Surgery     |
| ALFRED FEINBERG<br>(January 1, 1920)            | Medical Illustrating   |
| RALPH P. FOLSOM, M.D.<br>(October 1, 1920)      | Neurology              |
| MORRIS FRIEDSON, M.D.                           | Diseases of Children   |
| DUNCAN M. FULLER, M.D.                          | Surgery                |
| FRANK A. GOUGH, D.D.S.                          | Orthodontia            |
| CYRIL W. GREENLAND, A.M.                        | Mineralogy             |
| MARY A. GRIGGS, Ph.D.<br>(February 14, 1920)    | Chemistry              |



|   |                        |
|---|------------------------|
| FAIRFAX HALL, M.D.<br>(October 1, 1920)               | Medicine               |
| CHARLES E. HAMILTON, M.D.                             | Medicine               |
| LOUIS P. HAMMETT, A.B.                                | Chemistry              |
| RALPH D. HARBY, D.D.S.                                | Prosthetic Dentistry   |
| ALBERT B. HASTINGS, B.S.<br>(October 1, 1920)         | Physiology             |
| CHARLES C. HATLEY, A.B.                               | Physics                |
| EDSON B. HECK, M.D.                                   | Medicine               |
| ALBERT C. HERRING, M.D.<br>(November 1, 1920)         | Medicine               |
| HOMER D. HOLLER, Ph.D.                                | Physics                |
| JOSEPH A. HYAMS, M.D.                                 | Urology                |
| NANCY JENISON, M.D.                                   | Medicine               |
| CLINTON W. KEYES, Ph.D.                               | Greek and Latin        |
| JOSEPH LAUBER   | Architecture           |
| ELLIOTT W. LAWRENCE, M.D.                             | Orthopedic Surgery     |
| CHARLES W. LESTER, M.D.<br>(October 1, 1920)          | Surgery                |
| MORRIS H. LEVINE, M.D.<br>(November 1, 1920)          | Surgery                |
| GUSTAVE R. MANNING, M.D.                              | Diseases of Children   |
| ALBERT D. B. MENUT, A.B.                              | French                 |
| FOSTER MURRAY, M.D.                                   | Medicine               |
| JOHN E. ORCHARD, A.M.                                 | Economic Geography     |
| IRVING H. PARDEE, M.D.<br>(November 1, 1920)          | Neurology              |
| CLIFFORD S. PARKER, A.M.                              | French                 |
| ERNEST R. I. PRATT, A.M.                              | Physics                |
| HARRY A. SCOTT, B.S.                                  | Physical Education     |
| WALTER E. SPAHR, A.M.                                 | Economics              |
| ALBERT M. STEVENS, M.D.                               | Diseases of Children   |
| ARTHUR E. SUFFERN, Ph.D.                              | Economics              |
| G. HERBERT TAYLOR, M.D.                               | Orthopedic Surgery     |
| ROSS TAYLOR, B.A.Sc.                                  | Mechanical Engineering |
| CLIFFORD L. TRELEAVEN, A.M.                           | Physics                |
| REXFORD G. TUGWELL, A.M.                              | Economics              |
| BENJAMIN M. VANCE, M.D.<br>(October 1, 1920)          | Surgery                |
| MARK A. VAN DOREN, A.M.                               | English                |
| PHILIP VAN INGEN, M.D.<br>(November 1, 1920)          | Diseases of Children   |
| WILLIAM C. VON GLAEN, M.D.                            | Pathology              |
| LUDO VON MEYSENBUG, M.D.                              | Pathology              |
| WILLIAM E. YOULAND, Jr., M.D.<br>(September 15, 1920) | Medicine               |

*Lecturers*

|   |   |
|---|---|
| JOHN B. ANDREWS, Ph.D.<br>(February 1, 1920)        | Social Legislation                                      |
| M. L. LEVY BRUEHL<br>(December 1, 1919)             | Philosophy  |
| JOHN R. B. BYERS, M.S.                              | Banking   |
| THOMAS W. BYRNES, C.P.A.                            | Accounting  |
| HENRY L. COLES, M.S.                                | Chemical Engineering                                    |
| WILLIAM B. DINSMOOR, S.B.Arch.                      | Architecture  |
| DAVID L. DODD, B.S.                                 | Insurance and Transportation                            |
| LEON DUGUIT   | Lecturer on the Julius Beer Founda-<br>tion             |
| EDWARD M. EARLE, A.M.                               | History   |
| META GLASS, Ph.D.                                   | Greek and Latin   |
| MRS. JULIANA HASKELL, Ph.D.                         | Germanic Languages and Literatures<br>(Barnard College) |
| HELEN R. HULL, Ph.B.                                | English   |
| EMIL G. H. KRAELING                                 | Semitic Languages                                       |
| MRS. ISABEL F. LEAVENWORTH, A.B.                    | Philosophy (Barnard College)                            |
| ROBERT D. LEIGH, A.M.                               | Government  |
| LOUISE R. LOOMIS, Ph.D.                             | History (Barnard College)                               |
| WILLIAM MCCrackEN, Ph.D.                            | Chemistry   |
| THOMAS MUNRO, Ph.D.                                 | Philosophy  |
| S. BUTLER MURRAY, Ph.D.                             | Roman Archaeology                                       |
| JOHN H. RANDALL, JR., A.B.                          | Philosophy  |
| JESSE H. RIDDLE, A.M.                               | Banking   |
| LINDSAY ROGERS, LL.B., Ph.D.                        | Public Law  |
| CHARLES H. SCHUMANN, JR., C.E.<br>(October 1, 1920) | Drawing   |
| B. M. SQUIRES                                       | Economics   |
| RENÉ E. G. VAILLANT, LL.M.                          | Romance Languages and Literatures<br>(Barnard College)  |
| SAMUEL L. WOLFF, Ph.D.                              | English   |

*Curators*

|                         |               |
|-------------------------|---------------|
| HERBERT J. WEHMAN, M.S. | Palaeontology |
|-------------------------|---------------|

*Assistants*

|                            |                             |
|----------------------------|-----------------------------|
| DAVID J. BEAVER, A.M.      | Chemistry                   |
| RHODA W. BENHAM, A.M.      | Botany (Barnard College)    |
| DOROTHY BURNE, A.B.        | History (Barnard College)   |
| WALTER H. CAVIN, B.S.      | Chemistry                   |
| STANLEY Z. CHYLINSKI, B.S. | Electrical Engineering      |
| HELEN CLARK, B.S.          | Chemistry (Barnard College) |

|                               |                                |
|-------------------------------|--------------------------------|
| DONALD H. COOK, B.S.          | Food Chemistry                 |
| LEONARD T. DAVIDSON, M.D.     | Medicine                       |
| GEORGE DEAN, B.S.             | Physics                        |
| BEECKMAN J. DELATOUR, M.D.    | Medicine                       |
| CLARA ELIOT, A.B.             | Economics (Barnard College)    |
| ALEXANDER FRIEDEN, A.M.       | Chemistry                      |
| HENRY E. GARRETT, A.B.        | Psychology                     |
| ERNA GUNTHER, A.M.            | Anthropology (Barnard College) |
| AUBREY L. HAWKINS, A.M.       | English                        |
| LUCY J. HAYNER, A.M.          | Physics                        |
| L. GRANT HECTOR, A.B.         | Physics                        |
| MINER C. HILL, M.D.           | Diseases of Children           |
| (October 1, 1920)             |                                |
| H. HERBERT JOHNSON, JR., A.M. | Zoology                        |
| ROY KEGERREIS, A.M.           | Cancer Research                |
| (September 1, 1920)           |                                |
| ISRAEL KORAL, A.B.            | Physics                        |
| MARTHA M. KRAMER, A.M.        | Food Chemistry                 |
| ANN G. KUTTNER, A.M.          | Bacteriology                   |
| ROY F. LAYTON, B.Sc.          | Physics                        |
| JOSEPH LINTZ, M.D.            | Medicine                       |
| ALFRED H. MARTIN, A.M.        | Psychology                     |
| WILLIAM R. MAY, M.D.          | Diseases of Children           |
| (October 1, 1920)             |                                |
| EDWIN P. MAYNARD, JR., M.D.   | Medicine                       |
| DONALD H. MILLER, A.B.        | Mathematics                    |
| J. CYRUS MORRELL, A.M.        | Chemistry                      |
| MARIE MUHLFELD, A.B.          | Food Chemistry                 |
| (September 1, 1920)           |                                |
| CHARLES J. MULLER, M.S.       | Mineralogy                     |
| FRED P. NABENHAUER, B.S.      | Chemistry                      |
| IMOGENE NEER, A.M.            | English (Barnard College)      |
| HOUSTON PETERSON, A.M.        | Philosophy                     |
| LOUIS G. POOLER, A.B.         | Physics                        |
| HAROLD E. ROBERTSON, A.B.     | Chemistry                      |
| ALFRED S. ROMER, A.B.         | Zoology                        |
| THEODORE M. SANDERS, M.D.     | Medicine                       |
| (November 1, 1920)            |                                |
| CARL A. SCHWARZE, A.M.        | Botany                         |
| (February 1, 1920)            |                                |
| LUCIA H. SMITH, A.B.          | Chemistry (Barnard College)    |
| ADELAIDE SPOHN, M.S.          | Food Chemistry                 |
| GASTON M. STEPHENS            | Business Organization          |
| LEONELL C. STRONG, B.S.       | Zoology                        |
| THOMAS SWAN, B.S.             | Chemistry                      |

|                       |                              |
|-----------------------|------------------------------|
| HENRY W. WELLS, A.B.  | English                      |
| JAMES F. WHITE, A.B.  | Physics                      |
| THERESA WOLFSON, A.B. | Government (Barnard College) |
| J. EMILIE YOUNG, A.B. | History (Barnard College)    |

## LEAVES OF ABSENCE

For the whole or part of the academic year 1919-1920  
were granted to the following officers:

|                                  |  |
|----------------------------------|--|
| ALLAN ABBOTT, A.B.               | Assistant Professor of English in Teachers College           |
| EUGENE E. AGGER, Ph.D.           | Associate Professor of Economics                             |
| BENJAMIN R. ANDREWS, Ph.D.       | Assistant Professor of Household Arts in Teachers College    |
| HARRY M. AYRES, Ph.D.            | Associate Professor of English                               |
| WENDELL T. BUSH, Ph.D.           | Associate Professor of Philosophy                            |
| GARY N. CALKINS, Ph.D.           | Professor of Protozoology                                    |
| ANNA M. COOLEY, B.S.             | Associate Professor of Household Arts Education              |
| JOHN DEWEY, LL.D.                | Professor of Philosophy                                      |
| RICHARD J. H. GOTTHEIL, Ph.D.    | Professor of Rabbinical Literature and the Semitic Languages |
| TRACY E. HAZEN, Ph.D.            | Assistant Professor of Botany                                |
| HENRY JOHNSON, A.M.              | Professor of History in Teachers College                     |
| WILLIAM H. KILPATRICK, Ph.D.     | Professor of Education in Teachers College                   |
| CHARLES C. LIEB, M.D.            | Assistant Professor of Pharmacology                          |
| SAMUEL McCUNE LINDSAY, LL.D.     | Professor of Social Legislation                              |
| MRS. FLORENCE DEL. LOWTHER, A.M. | Instructor in Zoology  |
| FRANK M. McMURRY, Ph.D.          | Professor of Elementary Education in Teachers College        |
| SAMUEL OSGOOD MILLER, C.E.       | Assistant Professor of Drawing                               |
| THOMAS I. PARKINSON, LL.B.       | Professor of Legislation                                     |
| FRANK H. PIKE, Ph.D.             | Associate Professor of Physiology                            |
| WALTER B. PITKIN, A.B., B.D.     | Associate Professor of Philosophy                            |
| CHARLES LANE POOR, Ph.D.         | Professor of Celestial Mechanics                             |
| EDWARD M. SAIT, Ph.D.            | Assistant Professor of Politics                              |
| JAMES T. SHOTWELL, Ph.D.         | Professor of History   |
| ALEXANDER SMITH, LL.D.           | Professor of Chemistry                                       |
| ALGERNON DEV. TASSIN, A.M.       | Assistant Professor of English                               |
| SAMUEL A. TUCKER, Ph.B.          | Assistant Professor of Electro-Chemistry                     |
| CLIFFORD B. UPTON, A.M.          | Associate Professor of Mathematics in Teachers College       |
| MABEL F. WEEKS, A.B.             | Associate in English   |
| WILLIAM H. WOGLOM, M.D.          | Associate Professor of Cancer Research                       |

APPENDIX 2

REPORT OF THE APPOINTMENTS OFFICE  
SEPTEMBER 25, 1919, TO SEPTEMBER 25, 1920

*To the Secretary of the University*

SIR:

It gives me great pleasure to submit herewith a record of the activities of the Appointments Office for the year from September 25th, 1919, to September 25th, 1920.

I must beg to call your attention to the fact that while 1,233 men registered in the Office, the following report is of necessity based on returns of half this number, as only 650 men replied to the questionnaires sent them.

There are three divisions in the work of the Office—the part time student employment for both men and women who are working their way through college; the permanent placement work for the graduates in business and professions; and the teaching appointments in colleges and universities.

The problem of the student working his way through college entirely, with no other financial assistance, is becoming more and more difficult of solution. The average student now estimates that it costs about \$40 a week for all expenses, and to earn that amount unless the student is exceptionally gifted, means giving an equivalent of time that makes it almost impossible to maintain adequate academic standing. Four or five students did it this past year, but at a sacrifice to college study and college activities. A large per cent. of the men need to earn from \$15 to \$20 a week, which is an easier matter if they are willing to do anything that will fit into their free time. Tutoring is always the most desirable and most profitable work, but the calls for this are spasmodic, coming mostly before the examination periods; and for the man who relies on his own earnings for all or part of his expenses, this is not a

type of work to be depended on. The Boys' Club work—tutor-companions and athletic instructors come next in popularity, but these demand a student who has all his afternoons free and sometimes his evenings too, for Boys' Club work in Settlement Houses. The Post Office at Christmas and often during the year offers employment to a number of students who have only their evenings free, the hours of work being from 6 to 10 P. M. and the pay 60 cents an hour, making \$14.40 a week.

During the winter of 1919-1920, there were 1,233 men who registered for employment, while the summer registration for 1920 was 636. The number of positions filled was as follows:

*Academic Year (September 25, 1919—June 1, 1920)*

Boys' Club, 24; Cashier, 10; Chauffeur, 18; Clerical, 30 women, 198 men; Companion, 33; Draftsman, 23; Library Assistant, 7; Miscellaneous (Counting Traffic, Car Inspectors, Watchers at Polls, Advertising Agent, Usher), 32 women, 128 men; Orchestra, 7; Proctor, 45; Research, 7; Salesman, 21; Stenographer, 61 women, 82 men; Supernumeraries, 63; Translator, 22; Tutor, 51 women, 204 men; Waiter, 15; Watchman, 5; Writing Scenarios, 2. Total, 174 women; 1,105 men.

*Summer (June 1 to September 25, 1920)*

Accountant, 4; Advertising Campaign Manager, 2; Bell Boy, 2; Camp Counsellor, 3; Cashier, 18; Chauffeur, 9; Clerical, 2 women, 178 men; Companion for elderly man, 1; Hotel Clerk, 4; Investigator, 1; Library Assistant, 3; Life Guard, 4; Manual Labor, 2; Messenger, 2; Miscellaneous, 5; Playground Director, 6; Proctor, 10; Proof reader, 1 woman, 1 man; Reading aloud, 2; Registration Aids, 18; Reporter, 1; Salesman, 2; Stenographer, 4 women, 12 men; Surveyor, 2; Translator, 4; Tutor, 8 women, 106 men; Tutor-Companion, 14; Typist, 13; Usher, 9; Waiter, 5; Watcher at Polls, 6. Total, 20 women; 446 men.

A much greater variety of calls is indicated in the summer list of positions for part-time employment, such as pullman

car conductors, life guards, camp counsellors, hotel clerks, advertising campaign managers, besides the usual tutoring, stenographic and clerical work.

The increase in the earnings of students during the last five years is shown by the fact that five years ago, \$22,834 was earned by the students (men and women), while in 1919-1920 the amount was \$61,099.64. The summer earnings of 1915 were \$14,419.02, while for this year the vacation earnings were \$69,830.81, making a total for the past year of \$130,784.45, as compared with \$37,253.02 for 1914-1915. The number of registrants for the winter term this past year was 1,544, a 77 per cent. increase over five years ago when it was 871. The past summer registration was 728, an increase of 20 per cent. over 1915. The total earnings for the winter and summer will be found appended to this report.

Because of the increased demand on the staff for part time employment, there was little opportunity to develop the work of filling full time graduate positions, which had been disorganized during the war. The need for developing this side of the Office has been emphasized in previous reports, and this need is still there, as is shown by the fact that this past year, 417 positions came into the Office unsolicited, besides a large number that were referred to the various Heads of Departments for recommendations. The largest call was for 87 engineers, not including 23 calls for draftsmen. There were 72 positions for salesmen, 22 for chemists, 25 accountants, 22 secretaries, 21 lawyers, 12 bookkeepers, 8 architects, 13 insurance agents, etc. Of these, only 33 were filled at salaries ranging from \$1,200 to \$2,500, but much more could have been done had there been time to consult the Heads of the various Departments and get into touch with the Alumni. There were 197 Alumni who applied for full time work during the year and who might have been assisted had a closer bond existed between the Office and the graduates.

The greatest call for women for full time work is in the stenographic field, and there are never enough applicants to satisfy the demands for this work. In the past year 196 such positions have been received in the office, and only 24 could

be filled. There were 189 registrants applying for work such as personnel, accounting, research, clerical, journalistic, etc. The total number of positions for women was 239, of which 33 were filled.

There were 25 teaching appointments made for positions in colleges and universities, ranging in rank from instructors to full professorships, and salaries varying from \$1,500 to \$2,800. Seven appointments were made in English Departments, 5 in Mathematics, 4 in Economics, 2 in History, 2 Romance Languages, and one each in Biology, Geology, Sociology, Government and Stenography.

In concluding this report I should like to express my thanks to the Deans of the various schools, and the Secretary of the University, for their coöperation in the work of the Appointments Office.

Respectfully submitted,

ETHEL A. BREED,

*In charge*



TABLE I  
STUDENT EMPLOYMENT

OCCUPATIONS AND EARNINGS REPORTED BY STUDENTS FOR YEAR 1919-1920

| <i>Academic Year (Sept. 25, 1919-June 1, 1920)</i> |            |             | <i>Summer (June 1 to Sept. 25, 1920)</i> |            |             |
|--|------------|-------------|--|------------|-------------|
|  | WOMEN      | MEN         |  | WOMEN      | MEN         |
| Boy's Club   | \$         | \$2,486.00  | Advertising                              | \$         | \$1,200.00  |
| Cashier  |            | 1,452.00    | Camp Counsellor                          |            |             |
| Clerical   | 2,729.92   | 17,564.47   | Play Ground                              |            | 850.00      |
| Chauffeur  |            | 850.00      | Clerical                                 | 138.65     | 45,436.44   |
| Companion  |            | 3,432.53    | Hotel Clerk                              |            | 179.67      |
| Draftsman  |            | 1,922.00    | Life Guard                               |            | 850.18      |
| Library Assistant                                  |            | 567.00      | Miscellaneous                            | 712.50     | 2,953.65    |
| Miscellaneous                                      | 504.00     | 1,695.10    | Post Office Clerk                        |            | 479.20      |
| Orchestra  |            | 916.00      | Proof Reader                             | 60.00      |             |
| Proctor  |            | 220.50      | Pullman Car Con-                         |            |             |
| Research   |            | 752.00      | ductor                                   |            | 1,900.00    |
| Salesman   |            | 160.00      | Stenographer                             | 880.00     | 910.00      |
| Stenographer                                       | 626.50     | 832.17      | Technical                                |            | 255.00      |
| Supernumeraries                                    |            | 109.60      | Tutor                                    | 310.00     | 6,221.77    |
| Translator   |            | 380.00      | Tutor-Companion                          |            | 5,853.75    |
| Tutor  | 2,297.50   | 19,507.85   | Writing Scenarios                        |            | 640.00      |
| Waiter   |            | 1,163.60    |  |            |             |
| Watchman   |            | 1,360.00    |  | \$2,101.15 | \$67,729.66 |
| Writing Scenarios                                  |            | 931.40      |  |            |             |
|  | \$6,157.42 | \$34,942.22 |  |            |             |

TABLE II

TOTAL EARNINGS REPORTED BY STUDENTS FROM SEPTEMBER 25, 1919, TO  
SEPTEMBER 25, 1920

## I

## Academic Year (Sept—May)

|                                 | <u>Men</u>       | <u>Women</u>    | <u>Total</u>     |
|---------------------------------|------------------|-----------------|------------------|
| Through the appointments office | \$54,942.22      | \$6,157.42      | \$61,099.64      |
| Other positions                 | <u>46,020.71</u> | <u>2,865.86</u> | <u>48,886.57</u> |
| Total                           | \$100,962.93     | \$9,023.28      | \$109,986.21     |

## II

## Summer (June—Sept.)

|                                 |                  |               |                  |
|---------------------------------|------------------|---------------|------------------|
| Through the appointments office | \$67,729.66      | \$2,101.15    | \$69,830.81      |
| Other positions                 | <u>27,345.29</u> | <u>375.65</u> | <u>27,720.94</u> |
| Total                           | \$95,074.95      | \$2,476.80    | \$97,551.75      |

## III

## Grand Total Earnings for the Year

|                |                  |                 |                  |
|----------------|------------------|-----------------|------------------|
| Academic year  | \$100,962.93     | \$9,023.28      | \$109,986.21     |
| Summer         | <u>95,074.95</u> | <u>2,476.80</u> | <u>97,551.75</u> |
| Total for year | \$196,037.88     | \$11,500.08     | \$207,537.96     |

## APPENDIX 3

### REPORT OF THE CHAIRMAN OF THE BOARD OF STUDENT REPRESENTATIVES

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR:

The Board of Student Representatives has the honor to present the following report for the academic year of 1919-1920.

The first complete academic year following the signing of the Armistice of the World War saw Columbia not only back to normal but leading, as usual, in the application of new educational philosophies.

The Psychological Test not only affords a better method for selecting future Columbia men but also made it possible this year for about 250 Western boys to enter Columbia without taking the time-worn entrance examinations. The new course in Contemporary Civilization gave our Freshmen a splendid foundation upon which to build a well selected course for their later studies. The Tuesday assembly was Columbia's first systematic attempt to bring its students together.

These changes made it possible for the Student Board to present opportunities and incentives for all undergraduates to become better acquainted with Columbia traditions and philosophy. The Board hopes that it has, at least to some extent, been able to supply these opportunities and incentives by adopting the Freshman activity button; by doing our part in helping to make Columbia a residence college; by carrying on an educational campaign for the Honor System; and by holding systematic class meetings, pep meetings and general college meetings.

The following students were chosen at the 1919 Spring elections to sit on the Board of Student Representatives during the Academic year of 1919-1920: Messrs. Cerf, Haldenstein, Koenig, Owens, and Shaw, Routine Messrs. Healy and Weinstein having been elected in February.

At the first meeting of the Board Mr. Shaw was chosen chairman and Mr. Koenig secretary-treasurer.

The only other meeting in the Spring of 1919 was called at the request of Dean Hawkes to discuss with him the plans for the Tuesday assemblies which the faculty had decided to conduct during the academic year of 1919-1920. By means of these assemblies it was hoped to bring students into more intimate contact with each other and to develop a comprehensive admiration and loyalty for our Alma Mater. Subsequent meetings were held with the Dean during the academic year to discuss how best to bring about this result.

The first task of the Board of Student Representatives when it met in the Fall was to fill a vacancy in its own rank, caused by the graduation of B. A. Cerf. An election was held on October 3 at which only upper-classmen were eligible to vote. Mr. Benedict was chosen to fill the vacancy. At this same election a vacancy in the King's Crown Committee was filled and the three undergraduate members of the Athletic Association Committee were elected.

According to custom, the Board called a series of Freshman Class meetings so that the first-year men might become acquainted with their classmates and prepare for the Tug of War and the Flag Rush, both of which they won from the Sophomores. In due time the Freshman elections were held and the direction of the class was then turned over to its new officers.

The Student Board selected cheer leaders for the year and a series of 'pep' meetings were held before the various football games, culminating in a big meeting in Earl Hall the evening before the Brown game.

The Board cooperated with the Alumni Day Committee in arranging an attractive program which consisted of a wrestling meet with Brown; a fencing meet with Pennsylvania; mass

boxing, and the Interclass Song Contest. It was necessary to hold the Freshman-Sophomore cane sprees before this date, due to the shortage of wrestling mats in the Gymnasium. Moreover, many of the cane spree men were out for other sports and the coaches wished to have them report as soon as the cane spree contests had been held.

The 1920 Spring election resulted in the choosing of Messrs. Condon, Macy, Schiff, Kienninger and Waldecker for the 1920-1921 Board of Student Representatives, Messrs. Forsythe and Larner having been elected in February.

A man's thorough college education depends largely on his participation in some extra curricular activity whereby he learns how to meet and associate with other men and becomes familiar with the traditions of his college. Acting on this principle, the Student Board decided to create an incentive for Freshman participation in extra-curricular activity. This incentive took the form of a distinctive lapel button which was to be worn by Freshmen engaged in college activities. It was further provided that the participation must continue until the cessation of that activity. The great enthusiasm shown in the Freshman Class and the exceptionally high percentage which were able to attain the honor of wearing an Activity Button, proved that the plan was very successful.

As a result of a petition from the Sophomore Class the Board decided to allow the members of that class to wear class hats in any style they wished provided they were of a color distinctive from the Varsity Hats.

A residential college has been the dream of Columbia men who have been interested in the development of a college spirit, a college loyalty, and, most of all, a distinctive Columbia philosophy. After much debate the Student Board was able to draw up the following petition which was satisfactory both to the Faculty and to the Board.

#### *Petition for Students' Residence Rule*

The undersigned students of Columbia College hereby recommend for approval by the President, Trustees, and

Faculty of Columbia University a Students' Residence Rule which will embrace the following conditions:

1. Every student who is a candidate for a degree in Columbia College must reside in a dormitory or a fraternity house for two years prior to receiving his degree.
2. The Freshman and Sophomore years are required as the period of residence unless the Faculty Board for sufficient reason allows the student to choose two other years for residence.
3. Students matriculating this year, or having previously matriculated, will not be subject to this ruling, but are emphatically urged to promote and comply with it.
4. The College shall make adequate provision by means of scholarships or special exceptions to the Residence Rule, for a limited number of students who would be financially unable to attend college otherwise.

a.—The exceptions to this rule are to be authorized by a Faculty Board upon the presentation of satisfactory evidence that the student cannot financially afford to meet the obligations.

This petition was then published in the *Spectator*. Class meetings were called and the plan thoroughly discussed. A vote was then taken on the petition both in class meetings and in Hamilton Hall the following day. The final vote showed that there were 966 students for the residence rule, as outlined by the Board, and only 57 students against it. The petition was then submitted to the Committee on Instruction and it was later jointly considered by that committee and the Board of Student Representatives. The petition was then submitted to the authorities of the University and although the housing facilities made it impossible for them to adopt the petition in full, it is hoped that in the near future Columbia will be a residential college and will have all of the advantages attached thereto.

The question of conflicting meetings on the campus came up and the Board decided that permission should be obtained

from the Chairman of the Board before any meetings might be called.

The classic interfraternity relays were commenced on February 25. On account of unfortunate occurrences of previous years the Board drew up the following eligibility rules.

1. No man shall be eligible to represent his fraternity in any sport if he has won the Varsity letter or insignia in that sport at Columbia or any other college.
2. No member or pledgee shall be eligible to represent his fraternity in any sport unless he is carrying at least 12 hours of academic work in the University.
3. Each fraternity shall be allowed to have one substitute on its relay team.

The period of reconstruction, after the Great World War, during which Columbia had taken so many progressive steps in the development of her educational system, was considered by many Columbia students to be the proper time to widen their responsibility by adopting an Honor System. Not only were Columbia students seriously considering this progressive step but many other colleges were turning their thoughts to a more ideal and complete student government. This was shown by the numerous letters which the Board received from similar student organizations in other colleges, asking for information regarding our campaign.

Obviously, it was essential for the great majority of the students to be in favor of such a plan before it might be adopted, and so it was decided to start a vigorous campaign for the system. A constitution was drawn up and published in the college paper. Communications expressing student opinion on the subject were solicited by the paper. As a result a series of letters were published both for and against the system and editorials appeared from day to day. After this *Spectator* campaign, class meetings were called and thrown open to discussion. One of the Tuesday assembly hours was devoted to a large mass meeting at which three members of the Faculty and two students spoke. After this several days were devoted to voting. But this method did not seem to be

satisfactory, so a return postcard was sent to each student of the college requesting him to vote and return the card to the Dean without the voter's signature. Although the final balloting showed a majority in favor of the constitution, it was not sufficient to justify the Board in making a recommendation to the Faculty. However, we feel that the discussion and publicity which the proposed constitution received has been very beneficial to the college community and is a step toward its ultimate adoption.

During the railroad strike which threatened to cut off New York City's food supply, a call for student volunteers in case of such a crisis was made at one of the Tuesday assemblies. The response was immediate and favorable. The Board of Student Representatives, after conferring with the Faculty, notified the presidents of several of the large railroads that the students of Columbia College were ready to aid in any way should their services be required. The strike did not develop to the extent where such aid was necessary.

Class meetings were called to consider the section of the Lusk Bills which provided for the licensing of schools, teachers, etc. By practically a unanimous vote, the Board was empowered to wire the Governor of the State in protest against the passage of the bills.

The first issue of *Jester* contained a questionable article. After consideration the Board reprimanded the editor and warned him to use more discrimination in the future.

Complaints and  
Discipline

Charges of gambling in the Gemot were referred to the Board by the Dean. Several meetings were devoted to investigating the matter. It was found that the accused were not the arch-offenders but each one was severely reprimanded and placed on student probation. One member of the Board visited the Gemot at least once each day to see that there was no recurrence of the trouble.

The damage done to the room of a Sophomore by a group of Freshmen resulted in the Student Board holding the Freshman Class financially responsible for an itemized bill which was submitted.



Charges of misappropriation of the finances of the Sophomore banquet were not sustained, but the Board did find that the Banquet Committee had been negligent in the handling of the affair. It was provided that chairmen of future class functions, involving money expenditures, should make a financial report to the Board of Student Representatives.

As a result of a complaint regarding the count of the ballots for the Spring elections, the Board sustained its original count.

The Board wishes to recommend to the King's Crown Board of Governors that the members of the Student Board of Representatives receive the King's Crown.

Recommendations

It was found very helpful to have class officers and other campus leaders meet with the Board to discuss campus problems. It is recommended that this practice be continued.

The Board wishes to recommend that prominent business and professional men be secured to speak at the Tuesday assemblies. There is a great opportunity for the new Board to develop a campus interest in these assemblies.

It is also recommended that the educational campaign for the Honor System be continued.

The Student Activity Fee has brought out a representative Columbia attendance at every athletic event during the academic year. The complaint that the holders of S.A.F. tickets were not being given proper consideration resulted in a Student Board recommendation for an increase in the fee from \$5.00 to \$10.00 so that every activity would have sufficient funds to give all college students the best of service. It will be the task of the incoming Board to see that this new fee brings the proper results.

Much has been said about the new Columbia spirit but those of us who have been fortunate enough to attend Alumni meetings realize that it is only a rejuvenation of the Old Columbia spirit. All of us are aware that a college spirit is founded, primarily, on a football team. The spirit of Columbia was never criticized before 1905, the year when football was abandoned. Since 1915 college spirit has been growing. Tremendous strides were made this year, causing comment in the New

York daily papers. The ban removed from football; the addition of Cornell and Pennsylvania to the 1920 schedule, and the securing of one of the best football coaches in the country—all afford a wonderful opportunity to make Columbia spirit what it was in the "good old days."

We shall all watch with keen interest the leadership of the new Board of Student Representatives. Here is truly a great task for them.

Each year naturally brings its own problems but with the cooperation of Dean Hawkes and Secretary Fackenthal, such as the retiring board enjoyed, we know that the year 1920-1921 will only add to Columbia's strength and spirit.

Respectfully submitted,

CHARLES E. SHAW,  
*Chairman*

## REPORT OF THE REGISTRAR

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920  
AND FOR THE SUMMER SESSION OF 1920

*To the President of the University*

SIR:

I have the honor to present herewith the report of the Registrar for the academic year 1919-1920 and for the Summer Session of 1920.

27,089 different individual students received instruction at Columbia University from the opening of the Summer Session Enrollment of 1919 to the close of the Spring Session of 1920. This total is the largest on record in the University's history, and is about seven thousand in excess of the high mark reached in 1916-1917. Among the schools and faculties Columbia College comes first in respect to numbers with 1,901 undergraduates. Adding to these the students enrolled at Barnard, we had an undergraduate body of 2,656. In the group of graduate and professional schools 6,548 were in attendance. Exclusive of 87 duplicates the combined total of undergraduate, graduate and professional students at the University during the Winter and Spring Sessions was 9,117. Within the same period 10,330 others were pursuing regular courses in the Department of Extension Teaching, and are included in the total of 19,447 for the college year. In the Summer Session preceding 9,539 students were in attendance, of whom 1,897 returned for work at the University. The 7,642 who did not so return are counted in the grand total of 27,089 for the entire year 1919-1920.

As an index of the University's growth, even more significant are the figures showing the number and proportion of new students. These are given in connection with New Students Table I below and appear in the last two columns. For lack of corresponding figures from past years no comparisons can be shown at present, but a start has been made in that direction for future use. In each group a number

of students are counted as new without regard to their former affiliation with the University in some other department or faculty. They are new so far as concerns the particular course to which they have been admitted. Thus, it is known that somewhat over 150 entered Columbia College by way of Extension Teaching or Summer Session. Similarly, Columbia College supplies a considerable body of new students entering the professional schools, as is shown by the fact that in the year covered by this report over 1,250 or 66 per cent definitely signified their intention to enter upon a course of professional studies after two or three years of preparation. Of these 435 are headed toward the Engineering Schools; 306 intend to continue studies in the School of Medicine; 215 in the School of Business; 190 in the School of Law; 90 in the School of Journalism; 17 in the School of Architecture and 5 in the School of Education.

The new students in Columbia College and Barnard College constitute respectively 47.6 and 38.7 per cent. of the enrollment. The proportion is comparatively lower in the professional schools offering a four-year course—31.7 per cent. in Architecture, 30.4 per cent. in Practical Arts and 23.5 per cent. in Medicine. The professional schools with two- and three-year courses show a higher ratio of new students as follows: 72.4 and 68 per cent. respectively in Journalism and Business, 52.1 in Law and 36.8 in Engineering. In the Summer Session, Extension Teaching and the group of unclassified University students 60 to 64 per cent. are new. Nearly 50 per cent. entered the Graduate Faculties, where the course may be spread over a period of from one to five years. It should be noted that 659 new students in Columbia College have been admitted to the Freshman class.

It is interesting to note the remarkable increase in the number of students coming to the University from places outside the Greater New York area. Within a decade the proportion has grown from about 50 per cent. to nearly 60 per cent. This year, out of 9,117 undergraduate, graduate and professional students only 3,702 claim New York City as their home. Among the

Out-of-Town  
Students

5,415 remaining are found representatives from every state in the Union and from forty-four different foreign countries and five territories of the United States. Exclusive of New York City, 3,002 or 72.8 per cent. have their homes in the North Atlantic Division. Residents of the North Central Division are the next largest group with 913 or 9.92 per cent., 477 or 5.18 per cent. are from foreign countries. The South Atlantic, South Central and Western Divisions come next in order with 425 or 4.62 per cent., 336 or 3.65 per cent. and 300 or 3.26 per cent. respectively. From foreign lands, China sent 144 students; 105 came from Canada, 85 from Japan, 12 each from France and Great Britain, 10 from India, and smaller numbers from other countries. From the territories, 31 and 12 came from the Philippine Islands and Porto Rico respectively. The appended table is designed to show the comparative proportions of New York City and out-of-town residents for the ten-year period 1910-1911 to 1919-1920. It also gives the ratio of foreign students.

| Year    | A. Students<br>from N. Y.<br>City<br>Per cent. | B. Out-of-Town<br>Students<br>Per cent. | C. Students from<br>foreign Countries<br>(Included in B)<br>Per cent. |
|---------|--|---|---|
| 1910-11 | 49.74  | 50.26                                   | 3.24  |
| 1911-12 | 46.86  | 53.14                                   | 4.21  |
| 1912-13 | 48.95  | 51.05                                   | 2.80  |
| 1913-14 | 48.57  | 51.43                                   | 2.75  |
| 1914-15 | 49.26  | 50.74                                   | 3.03  |
| 1915-16 | 45.70  | 54.30                                   | 3.19  |
| 1916-17 | 45.14  | 54.86                                   | 3.22  |
| 1917-18 | 43.38  | 56.62                                   | 4.46  |
| 1918-19 | 46.26  | 53.74                                   | 5.28  |
| 1919-20 | 40.22  | 59.78                                   | 5.18  |

A study of the figures, showing the number of students attending the Summer Session since 1900, shows a steady increase in the proportion of students from the several out-lying divisions in the United States and from foreign coun-

tries. Whereas in 1900, 83.69 per cent. came from nearby points (New York, New Jersey and Connecticut), in 1920, 40.62 per cent. were residents of the same section. This shows how our Summer Session, as an institution, is assuming a distinctly national character. As against

Geographical Distribu-  
tion of Summer Session  
Students

88 per cent. in 1900, only about 54 per cent. in 1920 came to the University from the North Atlantic Division. Within the same period the number of students from the South Atlantic Division increased from 2.88 per cent. to 14.25 per cent.; the South Central Division from 2.13 per cent. to 7.12 per cent.; the North Central Division from 5.55 per cent. to 19.49 per cent.; the Western Division from 0.96 per cent. to 2.36 per cent. From foreign countries the number increased from 0.48 per cent. to 2.42 per cent. The appended table shows in greater detail the geographical distribution of our Summer Session students, by years, from 1900 to 1920.

**GEOGRAPHICAL DISTRIBUTION OF SUMMER  
SESSION STUDENTS, 1900-1920**

| Year | No. Atlantic Div. | So. Atlantic Div. | So. Central Div. | No. Central Div. | Western Div. | Insular and Non-Contig. Ter. | Total United States | Foreign Countries | Total   |         | Grand Total |
|------|-------------------|-------------------|------------------|------------------|--------------|------------------------------|---------------------|-------------------|---------|---------|-------------|
|      |                   |                   |                  |                  |              |                              |                     |                   | General | Medical |             |
| 1900 | 367               | 12                | 9                | 23               | 4            |                              | 415                 | 2                 | 417     |         | 417         |
| %    | 88.00             | 2.88              | 2.13             | 5.58             | 0.96         |                              | 99.52               | 0.48              |         |         |             |
| 1901 | 485               | 29                | 20               | 34               | 8            |                              | 576                 | 3                 | 579     |         | 579         |
| %    | 83.77             | 5.00              | 3.46             | 5.88             | 1.38         |                              | 95.49               | 0.51              |         |         |             |
| 1902 | 531               | 34                | 10               | 53               | 12           |                              | 640                 | 3                 | 643     |         | 643         |
| %    | 82.58             | 5.29              | 1.54             | 8.24             | 1.87         |                              | 99.52               | 0.48              |         |         |             |
| 1903 | 753               | 68                | 24               | 71               | 13           | 5                            | 934                 | 6                 | 940     | 53      | 993         |
| %    | 80.11             | 7.24              | 2.55             | 7.55             | 1.38         | 0.53                         | 99.36               | 0.64              |         |         |             |
| 1904 | 736               | 75                | 13               | 64               | 11           | 2                            | 901                 | 13                | 914     | 47      | 961         |
| %    | 80.52             | 8.21              | 1.42             | 7.01             | 1.20         | 0.22                         | 98.58               | 1.42              |         |         |             |
| 1905 | 697               | 104               | 42               | 91               | 28           |                              | 962                 | 14                | 976     | 42      | 1018        |
| %    | 71.41             | 10.66             | 4.30             | 9.32             | 2.87         |                              | 98.56               | 1.44              |         |         |             |
| 1906 | 693               | 134               | 51               | 93               | 13           |                              | 984                 | 24                | 1008    | 33      | 1041        |
| %    | 68.75             | 13.29             | 5.06             | 9.22             | 1.29         |                              | 97.61               | 2.39              |         |         |             |
| 1907 | 905               | 180               | 67               | 149              | 25           | 1                            | 1327                | 23                | 1350    | 42      | 1392        |
| %    | 67.04             | 13.33             | 4.96             | 11.04            | 1.85         | 0.07                         | 98.29               | 1.71              |         |         |             |
| 1908 | 1011              | 185               | 63               | 177              | 32           | 2                            | 1470                | 28                | 1498    | 34      | 1532        |
| %    | 67.49             | 12.35             | 4.21             | 11.82            | 2.13         | 0.13                         | 98.13               | 1.87              |         |         |             |
| 1909 | 1272              | 265               | 93               | 241              | 30           | 7                            | 1908                | 41                | 1949    | 22      | 1971        |
| %    | 65.26             | 13.60             | 4.77             | 12.37            | 1.54         | 0.36                         | 97.90               | 2.10              |         |         |             |
| 1910 | 1570              | 369               | 181              | 385              | 71           | 11                           | 2587                | 45                |         |         | 2632        |
| %    | 59.65             | 14.01             | 6.88             | 14.63            | 2.70         | 0.42                         | 98.29               | 1.71              |         |         |             |
| 1911 | 1796              | 447               | 177              | 410              | 69           | 8                            | 2907                | 66                |         |         | 2973        |
| %    | 60.41             | 15.04             | 5.95             | 13.79            | 2.32         | 0.27                         | 97.78               | 2.22              |         |         |             |
| 1912 | 2106              | 511               | 248              | 556              | 98           | 7                            | 3526                | 76                |         |         | 3602        |
| %    | 58.47             | 14.19             | 6.88             | 15.44            | 2.72         | 0.19                         | 97.89               | 2.11              |         |         |             |
| 1913 | 2622              | 620               | 318              | 746              | 106          | 11                           | 4423                | 116               |         |         | 4539        |
| %    | 57.76             | 13.66             | 7.01             | 16.44            | 2.34         | 0.24                         | 97.45               | 2.55              |         |         |             |
| 1914 | 3330              | 784               | 306              | 927              | 131          | 10                           | 5488                | 102               |         |         | 5590        |
| %    | 59.56             | 14.02             | 5.46             | 16.58            | 2.35         | 0.18                         | 98.17               | 1.83              |         |         |             |
| 1915 | 3824              | 677               | 318              | 929              | 97           | 5                            | 5850                | 111               |         |         | 5961        |
| %    | 64.14             | 11.35             | 5.33             | 15.58            | 1.64         | 0.09                         | 98.13               | 1.87              |         |         |             |
| 1916 | 4388              | 1109              | 549              | 1593             | 235          | 14                           | 7888                | 135               |         |         | 8023        |
| %    | 54.69             | 13.83             | 6.84             | 19.86            | 2.93         | 0.17                         | 98.32               | 1.68              |         |         |             |
| 1917 | 3577              | 717               | 343              | 1172             | 166          | 23                           | 5997                | 147               |         |         | 6144        |
| %    | 58.21             | 11.67             | 5.58             | 19.07            | 2.71         | 0.37                         | 97.61               | 2.39              |         |         |             |
| 1918 | 3613              | 661               | 296              | 1169             | 130          | 8                            | 5877                | 145               |         |         | 6022        |
| %    | 60.00             | 10.98             | 4.91             | 19.41            | 2.16         | 0.13                         | 97.49               | 2.41              |         |         |             |
| 1919 | 5356              | 1374              | 628              | 1751             | 184          | 28                           | 9321                | 218               |         |         | 9539        |
| %    | 56.13             | 14.41             | 6.59             | 18.35            | 1.92         | 0.29                         | 97.71               | 2.29              |         |         |             |
| 1920 | 5274              | 1393              | 696              | 1906             | 231          | 43                           | 9541                | 237               |         |         | 9780        |
| %    | 53.92             | 14.28             | 7.12             | 19.49            | 2.36         | 0.44                         | 97.58               | 2.42              |         |         |             |

Holders of degrees from as many as 460 higher institutions of learning came to Columbia for further study in the graduate and professional schools, including 72 lying outside the boundaries of the United States. 3,425 individual students are graduates of one or more institutions, holding 4,191 degrees. 974 of these had received their degrees at Columbia. Exclusive of the other institutions situated in New York City, the following ten show the largest representation as to graduates in the order given: Yale 82, Harvard 78, Wellesley 62, Vassar 61, Princeton 61, Cornell 59, University of Chicago 55, University of Wisconsin 46, University of Michigan 42, and Smith 42.

Holders of  
Degrees

During the past five years 966 received their degree from Columbia College. Of these, 622 or 64 per cent. remained at the University, going forward to professional or non-professional work. 44 per cent. continued their studies by the exercise of a professional option. The remaining 20 per cent. took up University work after graduation from Columbia College. The appended table gives an analysis of the trend of Columbia College students toward more advanced university work over the five-year period.

Graduates of Columbia  
College Going Forward  
to University Work



TABLE SHOWING THE PROPORTION OF COLUMBIA COLLEGE GRADUATES GOING FORWARD TO UNIVERSITY WORK, PROFESSIONAL OR NON-PROFESSIONAL, FOR THE FIVE-YEAR PERIOD 1915 TO 1919

|   | 1915     |                  |       | 1916     |                  |       | 1917     |                  |       | 1918     |                  |       | 1919     |                  |       | For the Five Years |                  |       |
|---|----------|------------------|-------|----------|------------------|-------|----------|------------------|-------|----------|------------------|-------|----------|------------------|-------|--------------------|------------------|-------|
|   | By Prof. | After Graduation | Total | By Prof. | After Graduation | Total | By Prof. | After Graduation | Total | By Prof. | After Graduation | Total | By Prof. | After Graduation | Total | By Prof.           | After Graduation | Total |
|   |          |                  |       |          |                  |       |          |                  |       |          |                  |       |          |                  |       |                    |                  |       |
| A. Graduates going forward to University work                                     |          |                  |       |          |                  |       |          |                  |       |          |                  |       |          |                  |       |                    |                  |       |
| Graduate Faculties  | —        | 28               | 28    | —        | 23               | 23    | —        | 22               | 22    | —        | 29               | 29    | —        | 13               | 13    | —                  | 115              | 115   |
| Law   | 36       | 6                | 42    | 34       | 5                | 39    | 41       | 10               | 51    | 29       | 4                | 33    | 13       | 7                | 20    | 153                | 32               | 185   |
| Medicine  | 22       | 2                | 24    | 19       | 4                | 23    | 41       | 5                | 46    | 32       | 4                | 36    | 27       | 4                | 31    | 141                | 19               | 160   |
| Mines, Engineering & Chem.  | 14       | 1                | 15    | 15       | 1                | 16    | 27       | 2                | 29    | 35       | 1                | 36    | 24       | 1                | 25    | 115                | 6                | 121   |
| Architecture  | 3        | —                | 3     | 2        | —                | 2     | 2        | 1                | 3     | 2        | 1                | 3     | —        | —                | —     | 9                  | 2                | 11    |
| Journalism  | —        | —                | —     | —        | —                | —     | 1        | —                | 1     | —        | 1                | 1     | —        | 1                | 1     | 1                  | 2                | 3     |
| Business  | —        | —                | —     | —        | 2                | 2     | —        | 2                | 2     | —        | 2                | 2     | —        | —                | —     | 1                  | 7                | 8     |
| Dentistry   | —        | —                | —     | —        | —                | —     | —        | —                | —     | —        | —                | —     | —        | —                | —     | —                  | —                | —     |
| Teachers College  | 4        | 7                | 11    | —        | 3                | 3     | —        | 2                | 2     | —        | 3                | 3     | —        | —                | —     | 4                  | 15               | 19    |
| Pharmacy  | —        | —                | —     | —        | —                | —     | —        | —                | —     | —        | —                | —     | —        | —                | —     | —                  | —                | —     |
| Total   | 79       | 44               | 123   | 70       | 38               | 108   | 112      | 44               | 156   | 98       | 45               | 143   | 65       | 27               | 92    | 424                | 108              | 622   |
| B. Graduates not going forward to University work                                 |          |                  |       |          |                  |       |          |                  |       |          |                  |       |          |                  |       |                    |                  |       |
| Total graduates   |          |                  | 67    |          |                  | 68    |          |                  | 79    |          |                  | 69    |          |                  | 61    |                    |                  | 344   |
| C. Total graduates  |          |                  | 190   |          |                  | 176   |          |                  | 235   |          |                  | 212   |          |                  | 153   |                    |                  | 966   |
| D. Per cent. of those going forward to University work                            |          |                  |       |          |                  |       |          |                  |       |          |                  |       |          |                  |       |                    |                  |       |
| Note—Item B includes a few graduates going forward to University work as follows: |          |                  |       |          |                  |       |          |                  |       |          |                  |       |          |                  |       |                    |                  |       |
| University Teaching   | 42       | 23               | 65    | 40       | 21               | 61    | 47       | 19               | 66    | 46       | 21               | 67    | 42       | 18               | 60    | 44                 | 20               | 64    |
| Summer Session  |          |                  |       |          |                  |       |          |                  |       |          |                  |       |          |                  |       |                    |                  |       |
|   |          |                  | 5     |          |                  | 3     |          |                  | 6     |          |                  | 5     |          |                  | 6     |                    |                  | 25    |
|   |          |                  | 8     |          | 11               | 11    |          |                  | 4     |          |                  | 3     |          |                  | 2     |                    |                  | 28    |

With the ever growing number of students seeking each year to enroll at the University, the problem presents itself as to the manner in which they should be handled during periods of registration. A method of enrollment should be devised which from the student's viewpoint is both easy and simple. Internal organization should be made to serve rather than govern the convenience of those who come. Thanks to the untiring efforts of those who have gone before, there has already been set up a registrar's machinery which it would be difficult to improve upon as to accuracy. The particular problem under consideration has to deal rather with conditions outside the office partitions, where it is observed that perhaps there is a little too much waiting in line, too much moving from one window to another in the process of registration. Plans are already taking definite form, however, whereby these conditions may be bettered. Certain regrouping of the office staff during periods of registration will, it is hoped, enable the student to complete his registration by standing in line but once, and not twice or three times as heretofore. Other measures of relief are under consideration for the purpose of making registration as easy and simple as possible for the student.

Registration  
Procedure

In connection with this problem it has been suggested that by allowing former students to register by mail much of the pressure would be removed, with the result that crowds in the office would not be as large and lines as long. Certain obstacles exist in the way of the proposed method, chief among which is the inadequacy of such a system in cases where approval of a student's program is necessary. Personal interview between student and dean or adviser is often indispensable, and registration by mail would not be satisfactory. On the other hand a large number of students in the Graduate Schools and in Extension Teaching are not required to obtain approval of program, and such may very well be given the opportunity to register by mail. The proposed plan, therefore, seems well worth considering for certain groups of students, and it is hoped that some progress may be made in that direction.

Registration  
by Mail

TABLE I

REGISTRATION AT COLUMBIA UNIVERSITY IN ALL FACULTIES, DURING THE  
ACADEMIC YEAR, 1919-1920

| FACULTIES  | First Year | Second Year | Third Year | Fourth Year | Non-candidates | Graduates | Total         | New Students  | Percentage of New Students |
|--|------------|-------------|------------|-------------|----------------|-----------|---------------|---------------|----------------------------|
| <b>Undergraduate Students:</b>                               |            |             |            |             |                |           |               |               |                            |
| Columbia College <sup>1</sup>                                | 678        | 480         | 323        | 336         | 84             |           | 1,901         | 905           | 47.6                       |
| Barnard College  | 224        | 193         | 190        | 87          | 61             |           | 755           | 292           | 38.7                       |
| <b>Total Undergraduates</b>                                  | <b>902</b> | <b>673</b>  | <b>513</b> | <b>423</b>  | <b>145</b>     |           | <b>2,656</b>  | <b>1,197</b>  |                            |
| <b>Graduate and Professional Students</b>                    |            |             |            |             |                |           |               |               |                            |
| Graduate Faculties <sup>2</sup>                              |            |             |            |             |                | 1,249     | 1,249         | 619           | 49.6                       |
| Law <sup>3</sup>   | 218        | 96          | 85         |             | 49             | 3         | 451           | 235           | 52.1                       |
| Medicine <sup>7</sup>  | 98         | 77          | 122        | 101         | 17             | 31        | 446           | 105           | 23.5                       |
| Mines, Engineering & Chemistry                               | 25         | 49          | 44         |             | 13             | 5         | 136           | 50            | 36.8                       |
| Architecture <sup>4</sup>                                    |            |             | 48         |             | 13             | 2         | 63            | 20            | 31.7                       |
| Journalism <sup>5</sup>                                      | 77         | 43          |            |             | 3              |           | 123           | 89            | 72.4                       |
| Business <sup>6</sup>  |            | 192         |            |             | 53             | 24        | 269           | 183           | 68.0                       |
| Dentistry  | 4          |             |            |             |                |           | 4             | 4             | 100.0                      |
| Teachers College <sup>4</sup>                                |            |             |            |             |                |           |               |               |                            |
| Education  |            |             |            |             | 725            | 842       | 1,567         | 551           | 35.2                       |
| Practical Arts   | 195        | 138         | 315        | 280         | 438            | 185       | 1,551         | 479           | 30.4                       |
| Pharmacy   | 327        | 131         | 27         |             | 36             |           | 523           | 354           | 67.7                       |
| Unclassified Univ. Students                                  |            |             |            |             |                |           | 166           | 107           | 64.5                       |
| <b>Total Graduate and Professional Students</b>              |            |             |            |             |                |           | <b>6,548</b>  |               |                            |
| Deduct Double Registration                                   |            |             |            |             |                |           | 87            |               |                            |
| <b>Total</b>   |            |             |            |             |                |           | <b>6,461</b>  |               |                            |
| Extension Teaching   |            |             |            |             |                |           |               |               |                            |
| At the University  |            |             |            |             |                |           | 11,564        | 7,207         | 62.3                       |
| Extra Mural  |            |             |            |             |                |           | 1,164         | 742           | 63.7                       |
| Deduct Double Registration <sup>4</sup>                      |            |             |            |             |                |           | 2,398         |               |                            |
| <b>Total</b>   |            |             |            |             |                |           | <b>10,447</b> |               |                            |
| Summer Session 1919  |            |             |            |             |                |           | 9,539         | 5,733         | 60.1                       |
| Deduct Double Registration <sup>6</sup>                      |            |             |            |             |                |           | 1,897         |               |                            |
| <b>Grand Net Total, Winter, Spring &amp; Summer Sessions</b> |            |             |            |             |                |           | <b>27,089</b> | <b>17,664</b> |                            |
| The above total is exclusive of the following:               |            |             |            |             |                |           |               |               |                            |
| Students in Special Courses                                  |            |             |            |             |                |           | 1,080         |               |                            |
| Students in Home Study Courses                               |            |             |            |             |                |           | 145           |               |                            |

<sup>1</sup> The registration by years in Columbia College is according to the technical classification, based on the amount of credit earned.

<sup>2</sup> The total 1,249 does not include 22 college graduates in Law who are also candidates for the degree of A.M. or Ph.D. and 3 graduates in Law who are candidates for the degree of LL.M. It likewise does not include 553 candidates for higher degrees enrolled in the Summer Session only.

<sup>3</sup> Exclusive of College students who registered also under the professional faculties (in the exercise of a professional option), as follows: 73 Seniors in the School of Law; 30 Seniors in the Schools of Mines, Engineering and Chemistry; 1 Senior in the School of Architecture; 3 Seniors in the School of Journalism; and 10 Seniors in the School of Business.

<sup>4</sup> Does not include 988 candidates for a higher degree enrolled in the Summer Session only.

<sup>5</sup> Also registered in other schools of the University.

<sup>6</sup> Summer Session students who returned for work at the University.

<sup>7</sup> Includes 4 Juniors and 23 Seniors of Columbia College exercising a professional option, also counted above.

TABLE. 1A

STATISTICS OF REGISTRATION BY SESSIONS 1919-1920

|   | 1919<br>Summer<br>Session | Winter<br>Session | Spring<br>Session | Gross<br>Totals |
|---|---------------------------|-------------------|-------------------|-----------------|
| Undergraduate Students                      |                           |                   |                   |                 |
| Columbia College                            | 438                       | 1,709             | 1,726             | 3,873           |
| Barnard College                             | 57                        | 715               | 707               | 1,479           |
| Graduate and Professional Students          |                           |                   |                   |                 |
| Graduate Faculties                          | 785                       | 1,074             | 984               | 2,843           |
| School of Law                               | 129                       | 416               | 396               | 941             |
| School of Medicine                          | 24                        | 426               | 416               | 866             |
| Schools of Mines, Engineering and Chemistry | 23                        | 130               | 124               | 277             |
| School of Architecture                      | 7                         | 56                | 58                | 121             |
| School of Journalism                        | 12                        | 117               | 102               | 231             |
| School of Business                          | 42                        | 229               | 215               | 486             |
| School of Dentistry                         |                           | 4                 | 4                 | 8               |
| Teachers College { School of Education      | 1,042                     | 1,465             | 1,374             | 3,881           |
| School of Practical Arts                    | 919                       | 855               | 1,209             | 2,983           |
| College of Pharmacy                         |                           | 523               | 523               | 1,046           |
| Unclassified University Students            | 6,061                     | 107               | 110               | 6,287           |
| Extension Teaching                          |                           | 9,378             | 7,791             | 17,169          |
| <i>Gross Totals</i>                         | <i>9,539</i>              | <i>17,204</i>     | <i>15,748</i>     | <i>42,491</i>   |
| Duplicate Registrations                     |                           |                   |                   | 15,406          |
| <i>Net Total for the Year</i>               |                           |                   |                   | <i>27,085</i>   |

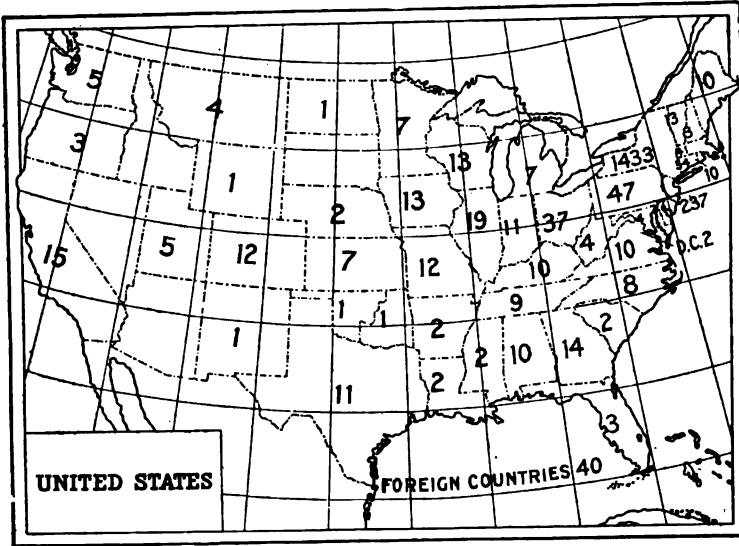
TABLE II

REGISTRATION AT COLUMBIA UNIVERSITY, IN ALL FACULTIES, DURING THE  
ACADEMIC YEARS 1910-1911 TO 1919-1920

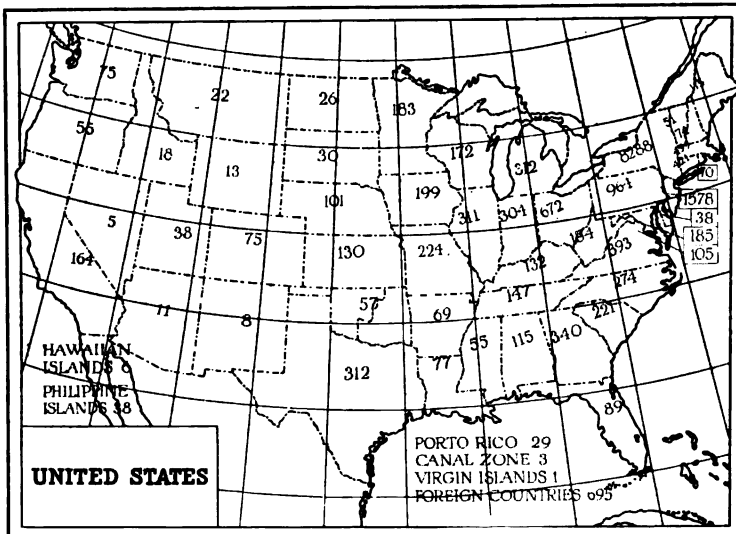
| FACULTIES  | 1910-1911    | 1911-1912    | 1912-1913     | 1913-1914     | 1914-1915     | 1915-1916     | 1916-1917     | 1917-1918     | 1918-1919     | 1919-1920     |
|--|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Undergraduate Students:                                      |              |              |               |               |               |               |               |               |               |               |
| Columbia College   | 802          | 820          | 877           | 941           | 1,116         | 1,256         | 1,453         | 1,315         | 1,486         | 1,901         |
| Barnard College  | 547          | 640          | 618           | 666           | 730           | 694           | 734           | 697           | 715           | 755           |
| <i>Total Undergraduates</i>                                  | <i>1,349</i> | <i>1,460</i> | <i>1,495</i>  | <i>1,607</i>  | <i>1,846</i>  | <i>1,950</i>  | <i>2,187</i>  | <i>2,012</i>  | <i>2,201</i>  | <i>2,656</i>  |
| Graduate and Professional Students                           |              |              |               |               |               |               |               |               |               |               |
| Graduate Faculties <sup>1</sup>                              | 1,220        | 1,304        | 1,470         | 1,568         | 1,875         | 1,516         | 1,358         | 1,052         | 774           | 1,249         |
| Law  | 376          | 417          | 478           | 407           | 453           | 485           | 474           | 219           | 233           | 451           |
| Medicine   | 329          | 351          | 344           | 344           | 374           | 376           | 451           | 554           | 485           | 446           |
| Mines, Engineering & Chemistry                               | 734          | 671          | 669           | 675           | 481           | 375           | 276           | 81            | 92            | 136           |
| Architecture   | 158          | 135          | 141           | 151           | 112           | 95            | 90            | 39            | 41            | 63            |
| Music  | 24           | 20           | 16            | 19            |               |               |               |               |               |               |
| Journalism   |              |              | 76            | 115           | 143           | 144           | 155           | 76            | 65            | 123           |
| Business   |              |              |               |               |               |               | 61            | 77            | 126           | 269           |
| Dentistry  |              |              |               |               |               |               |               |               |               | 4             |
| Teachers College   |              |              |               |               |               |               |               |               |               |               |
| Education  | 1,571        | 1,623        | 1,422         | 1,475         | 950           | 1,157         | 1,277         | 1,078         | 1,073         | 1,567         |
| Practical Arts   |              |              | 262           | 335           | 1,057         | 1,065         | 1,167         | 1,307         | 1,200         | 1,551         |
| Pharmacy   | 275          | 287          | 414           | 448           | 495           | 510           | 428           | 524           | 343           | 523           |
| Unclassified Univ. Students                                  | 147          | 129          | 100           | 159           | 199           | 161           | 206           | 107           | 115           | 166           |
| Deduct Duplicates  | 280          | 316          | 349           | 422           | 612           |               |               |               |               |               |
| <i>Total Graduate and Professional Students</i>              | <i>4,544</i> | <i>4,621</i> | <i>5,043</i>  | <i>5,334</i>  | <i>5,527</i>  | <i>5,884</i>  | <i>5,043</i>  | <i>5,114</i>  | <i>4,637</i>  | <i>6,548</i>  |
| Deduct Double Registration                                   |              | 8            | 13            | 7             | 39            | 160           | 36            | 38            | 35            | 87            |
| <i>Net Total</i>   | <i>5,893</i> | <i>6,073</i> | <i>6,525</i>  | <i>6,034</i>  | <i>7,334</i>  | <i>7,674</i>  | <i>8,004</i>  | <i>7,088</i>  | <i>6,803</i>  | <i>9,117</i>  |
| Students in Extension Teaching                               | 1,312        | 1,600        | 2,312         | 3,474         | 4,253         | 5,324         | 6,867         | 6,716         | 7,052         | 12,728        |
| Deduct Double Registration                                   | 259          | 320          | 410           | 572           | 761           | 880           | 1,216         | 1,203         | 1,572         | 2,398         |
| <i>Total</i>   | <i>6,046</i> | <i>7,353</i> | <i>8,427</i>  | <i>9,836</i>  | <i>10,826</i> | <i>12,118</i> | <i>13,745</i> | <i>12,601</i> | <i>12,283</i> | <i>19,447</i> |
| Summer Session   |              |              |               |               |               |               |               |               |               |               |
| Deduct Double Registration                                   | 2,632        | 2,973        | 3,602         | 4,539         | 5,590         | 5,961         | 8,023         | 6,144         | 6,022         | 9,539         |
| <i>Grand Net Total, Winter, Spring &amp; Summer Sessions</i> | <i>8,866</i> | <i>9,597</i> | <i>11,207</i> | <i>13,273</i> | <i>15,181</i> | <i>16,734</i> | <i>20,267</i> | <i>17,604</i> | <i>17,129</i> | <i>27,089</i> |

<sup>1</sup> In 1915-1916 candidates for the degree of Master of Arts whose subject of major interest was Education (654) were, for the first time, included only under the Faculty of Education. Since 1916-1917 all students engaged in graduate study with Education as their subject of major interest have been counted under the Faculty of Education only.

1897-1898



1919-1920



## GEOGRAPHICAL DISTRIBUTION OF STUDENTS

(1919-1920 is inclusive of 1919 Summer Session, but not of Extension Teaching)

**COLUMBIA UNIVERSITY**  
**Grand Net Total, including Summer Session and Extension Teaching**  
**1910-1911 to 1919-1920**

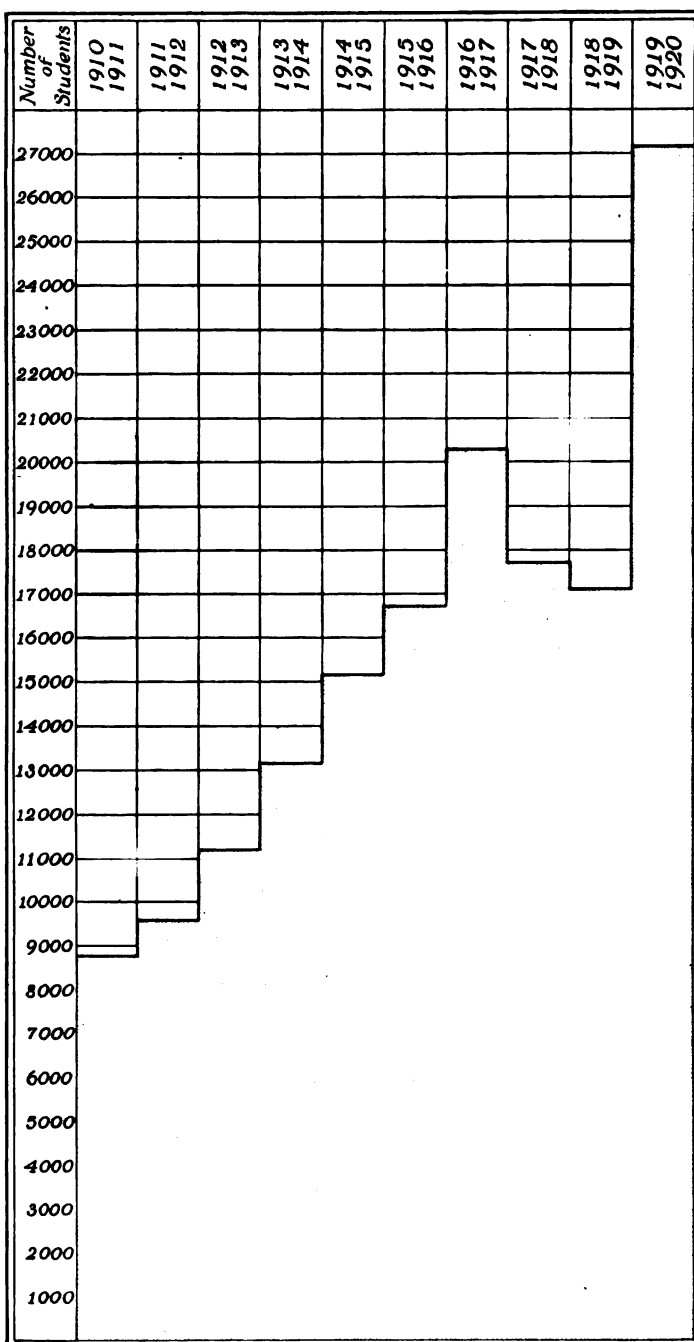


TABLE III  
PERCENTAGE OF INCREASE AND DECREASE OF REGISTRATION IN ALL FACULTIES (1910-1911 TO 1919-1920, BY YEARS,  
BY FIVE-YEAR PERIODS AND FOR THE TEN YEARS)

The minus sign indicates a decrease. Elsewhere an increase is to be understood.

| FACULTIES                                | 1910-1911 | 1911-1912 | 1912-1913 | 1913-1914 | 1914-1915 | 1915-1916 | 1916-1917 | 1917-1918 | 1918-1919 | 1919-1920 | 1909-1910 | 1914-1915 | 1915-1916 | 0661-6161<br>0161-6061 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------------|
| Undergraduate Students                   |           |           |           |           |           |           |           |           |           |           |           |           |           |                        |
| Columbia College                         | 15.00     | 2.24      | 6.05      | 7.20      | 18.50     | 12.54     | 15.68     | -0.41     | 13.00     | 27.03     | 61.27     | 70.34     | 70.34     | 174.71                 |
| Barnard College                          | 3.24      | 17.00     | -3.44     | 7.76      | 9.60      | -4.03     | 6.34      | -5.04     | 2.58      | 5.59      | 36.45     | 3.42      | 3.42      | 41.12                  |
| Total undergraduates                     | 9.04      | 8.23      | 2.40      | 7.40      | 14.27     | 5.63      | 12.15     | -8.00     | 9.39      | 20.67     | 50.45     | 43.88     | 43.88     | 116.46                 |
| Graduate and Professional Students:      |           |           |           |           |           |           |           |           |           |           |           |           |           |                        |
| Graduate Faculties:                      |           |           |           |           |           |           |           |           |           |           |           |           |           |                        |
| Mines, Engineering and Chemistry         | 20.12     | 4.83      | 9.56      | 10.00     | 20.00     | -10.14    | -10.42    | -22.53    | 13.58     | 61.36     | 82.25     | -33.32    | -33.32    | 9.75                   |
| Law                                      | 5.54      | -7.20     | -0.29     | 0.80      | -28.74    | -22.03    | -26.40    | -70.65    | 13.58     | 47.82     | -20.38    | -71.72    | -71.72    | -80.17                 |
| Medicine                                 | 16.05     | 10.00     | 14.62     | -2.30     | -2.00     | 7.06      | -2.27     | -53.70    | 6.39      | 93.56     | 30.81     | -0.4      | -0.4      | 30.10                  |
| Journaism                                | -4.91     | 6.68      | -2.20     | 0.00      | 8.72      | 0.61      | 19.04     | 22.44     | -12.45    | 8.04      | 8.09      | 19.25     | 19.25     | 28.90                  |
| Pharmacy                                 |           |           |           | 51.45     | 24.34     | 0.60      | 7.68      | -50.97    | -14.48    | 80.23     | 58.14     | -13.09    | -13.09    | 67.09                  |
| Education                                | -12.14    | 4.36      | 44.25     | 8.21      | 10.40     | 3.03      | -16.08    | 22.43     | -34.52    | 52.48     | 78.70     | 55.35     | 55.35     | 177.65                 |
| Practical Arts } Teachers College        | 39.89     | 3.31      | 3.76      | 7.48      | 10.88     | 16.81     | 9.99      | -2.41     | -0.96     | 31.99     | 21.12     | -43.75    | -43.75    | -55.63                 |
| Architecture                             | 11.27     | -14.56    | 4.44      | 7.00      | -25.82    | -17.85    | -5.26     | -56.66    | 5.13      | 53.90     |           |           |           |                        |
| Music                                    | 4.35      | -16.67    | -20.00    | 18.75     |           |           | New       | 26.23     | 63.63     | 113.49    |           |           |           |                        |
| Business                                 |           |           |           |           |           |           |           |           |           | New       |           |           |           |                        |
| Dentistry                                |           |           |           |           |           |           |           |           |           | 41.21     | 42.08     | 18.47     | 18.47     | 68.33                  |
| Total graduate and professional students | 16.81     | 1.69      | 9.13      | 5.77      | 3.62      | 6.48      | 1.00      | -13.95    | -9.32     | 34.03     | 43.32     | 24.46     | 24.46     | 71.30                  |
| Net total                                | 15.17     | 3.05      | 7.44      | 6.26      | 5.76      | 4.59      | 5.48      | -12.43    | -4.02     | 34.03     | 43.32     | 24.46     | 24.46     | 71.30                  |
| Students in Extension Teaching           | New       | 21.95     | 44.50     | 50.26     | 22.42     | 25.18     | 28.98     | -2.19     | 3.51      | 80.48     | 199.27    | 199.27    | 199.27    | 132.56                 |
| Net total                                | -9.79     | 3.66      | 14.06     | 16.72     | 10.60     | 11.93     | 13.42     | -0.32     | -2.52     | 36.32     | 40.60     | 79.03     | 79.03     |                        |
| Students in Summer Session               | 33.54     | 12.96     | 21.12     | 26.01     | 23.15     | 6.63      | 34.59     | -23.42    | -1.98     | 58.40     | 183.09    | 70.64     | 70.64     | 383.97                 |
| Grand Net Total                          | -3.47     | 8.24      | 16.77     | 18.43     | 14.37     | 10.23     | 21.11     | -13.14    | -2.70     | 52.31     | 63.28     | 78.44     | 78.44     | 194.92                 |

In 1915-1916 candidates for the degree of Master of Arts, whose subject of major interest was Education (654) were, for the first time, counted only under the Faculty of Education; since 1916-1917 all students engaged in graduate study with Education as their subject of major interest have been counted under the Faculty of Education only.



The proportion of men and women for the past ten years, exclusive of the Summer Session and Extension Teaching, is as follows:

| Year      | Men   | Per Cent. | Women | Per Cent. | Total |
|-----------|-------|-----------|-------|-----------|-------|
| 1910-1911 | 3,662 | 62.16     | 2,231 | 37.84     | 5,893 |
| 1911-1912 | 3,763 | 61.96     | 2,310 | 38.04     | 6,073 |
| 1912-1913 | 4,072 | 62.40     | 2,453 | 37.60     | 6,525 |
| 1913-1914 | 4,277 | 61.68     | 2,657 | 38.32     | 6,934 |
| 1914-1915 | 4,466 | 60.89     | 2,868 | 39.11     | 7,334 |
| 1915-1916 | 4,524 | 58.96     | 3,150 | 41.04     | 7,674 |
| 1916-1917 | 4,682 | 57.84     | 3,412 | 42.16     | 8,094 |
| 1917-1918 | 3,797 | 53.57     | 3,291 | 46.43     | 7,088 |
| 1918-1919 | 3,523 | 51.79     | 3,280 | 48.21     | 6,803 |
| 1919-1920 | 4,945 | 54.24     | 4,172 | 45.76     | 9,117 |

TABLE IV

DUPLICATE REGISTRATIONS BETWEEN THE SUMMER SESSION OF 1919 AND THE ACADEMIC YEAR 1919-1920

A. Students of the Summer Session Who Returned in the Winter or Spring Sessions of 1919-1920

| SCHOOL OR FACULTY TO WHICH THEY RETURNED                            | Men          | Women      | Total        |
|---|--------------|------------|--------------|
| Architecture  | 9            |            | 9            |
| Barnard College   |              | 64         | 64           |
| School of Business  | 44           | 6          | 50           |
| Columbia College  | 440          |            | 440          |
| Graduate Faculties (Political Science, Philosophy and Pure Science) | 139          | 88         | 227          |
| Journalism  | 6            | 7          | 13           |
| Law   | 125          |            | 125          |
| College of Pharmacy   | 7            |            | 7            |
| College of Physicians and Surgeons                                  | 47           | 7          | 54           |
| Schools of Mines, Engineering and Chemistry                         | 30           |            | 30           |
| Teachers College—Education and School of Practical Arts:            |              |            |              |
| Undergraduate   | 38           | 251        | 289          |
| Graduate  | 58           | 73         | 131          |
| Extension Teaching  | 215          | 243        | 458          |
| <i>Total</i>  | <i>1,158</i> | <i>739</i> | <i>1,897</i> |

B. Matriculated Graduate Students of the Summer Session of 1919 Who Did or Who Did Not Return in the Spring or Winter Sessions of 1919-1920

| FACULTIES                                      | Returned   | Did Not Return | Total        |
|--|------------|----------------|--------------|
| Political Science, Philosophy and Pure Science | 163        | 553            | 716          |
| Education and Practical Arts                   | 123        | 988            | 1,111        |
| <i>Total</i>                                   | <i>286</i> | <i>1,541</i>   | <i>1,827</i> |

**TABLE V**  
**CLASSIFICATION OF STUDENTS IN THE SCHOOLS OF MINES,**  
**ENGINEERING AND CHEMISTRY**

| DEPARTMENTS            | First Year | Second Year | Third Year | Non-Candidates | Post-Graduate | Total 1919-1920        | Total 1918-1919 | Total 1917-1918 |
|------------------------|------------|-------------|------------|----------------|---------------|------------------------|-----------------|-----------------|
| Chemical Engineering   | 23         | 22          | 16         | 3              |               | 64                     | 41              | 30              |
| Chemistry              |            |             |            |                |               |                        |                 | 2               |
| Civil Engineering      | 3          | 2           | 7          | 1              |               | 13                     | 9               | 10              |
| Electrical Engineering | 9          | 6           | 7          | 3              | 3             | 28                     | 8               | 8               |
| Mechanical Engineering | 14         | 7           | 7          | 2              | 2             | 32                     | 9               | 9               |
| Metallurgy             | 3          | 4           | 3          | 2              |               | 12                     | 12              | 5               |
| Mining Engineering     | 3          | 8           | 4          | 2              |               | 17                     | 13              | 17              |
| <i>Total</i>           | <i>55</i>  | <i>40</i>   | <i>44</i>  | <i>13</i>      | <i>5</i>      | <i>166<sup>1</sup></i> | <i>92</i>       | <i>81</i>       |

<sup>1</sup> The total 166 includes 30 College Seniors exercising professional option in Applied Science, as follows: 1 C. E.; 9 M. E.; 11 Chem. E.; 6 E. E.; 3 Met. E.

**TABLE VI**  
**CLASSIFICATION OF SEMINARY STUDENTS**

| SEMINARIES                   | 1919-1920             | 1918-1919 | 1917-1918 |
|------------------------------|-----------------------|-----------|-----------|
| Union Theological Seminary   | 52                    | 32        | 46        |
| General Theological Seminary | 5                     | 9         | 12        |
| Drew Theological Seminary    | 8                     | 5         | 4         |
| Jewish Theological Seminary  | 4                     | 6         | 8         |
| <i>Total</i>                 | <i>69<sup>1</sup></i> | <i>52</i> | <i>70</i> |

<sup>1</sup> Of these 6 were unclassified students.

TABLE VII

CLASSIFICATION OF CANDIDATES FOR THE DEGREES OF MASTER OF ARTS,  
MASTER OF LAWS, MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

*A. By Primary Registration*

|  | 1919-1920    | 1918-1919    |
|--|--------------|--------------|
| Political Science, Philosophy and Pure Science | 1,093        | 660          |
| Law  | 22           | 8            |
| Law (LL.M.)                                    | 1            | 6            |
| Mines, Engineering & Chemistry                 | 1            |              |
| Business                                       | 24           | 8            |
| Education and Practical Arts                   | 1,027        | 700          |
| Theological Seminaries                         | 63           | 44           |
| Philanthropy                                   | 1            | 10           |
| Botanical Garden                               | 1            |              |
| Officers                                       | 91           | 60           |
| Summer Session                                 | 1,541        | 989          |
| <i>Total</i>                                   | <i>3,865</i> | <i>2,485</i> |

*B. By Faculties, including the Summer Session*

|  | 1919-1920    | 1918-1919    |
|--|--------------|--------------|
| Political Science, Philosophy and Pure Science | 1,825        | 1,261        |
| Education and Practical Arts                   | 2,015        | 1,210        |
| Business                                       | 24           | 8            |
| Law (LL.M.)                                    | 1            | 6            |
| <i>Total</i>                                   | <i>3,865</i> | <i>2,485</i> |

*C. By Faculties, omitting students registered primarily for a professional degree in the Faculties of Law, Applied Science and Business, but including Summer Session*

|  | 1919-1920    | 1918-1919    |
|--|--------------|--------------|
| Political Science, Philosophy and Pure Science | 1,802        | 1,253        |
| Education and Practical Arts                   | 2,015        | 1,210        |
| <i>Total</i>                                   | <i>3,817</i> | <i>2,463</i> |

*D. By Faculties, omitting Summer Session and Students registered primarily for a professional degree in the Faculties of Law, Applied Science and Business*

|  | 1919-1920    | 1918-1919    |
|--|--------------|--------------|
| Political Science, Philosophy and Pure Science | 1,249        | 774          |
| Education and Practical Arts                   | 1,027        | 700          |
| <i>Total</i>                                   | <i>2,276</i> | <i>1,474</i> |

TABLE VIII

SUBJECTS OF MAJOR INTEREST OF STUDENTS REGISTERED FOR THE  
HIGHER DEGREES

| SUBJECTS                      | Political Science<br>Philosophy and<br>Pure Science | Law      | Mines, Engineer-<br>ing and Chemistry | Architecture | Business  | Education and<br>Practical Arts | Total        |
|-------------------------------|---|----------|---------------------------------------|--------------|-----------|---------------------------------|--------------|
| Agriculture                   | 1   |          |                                       |              |           |                                 | 1            |
| Anatomy                       | 1   |          |                                       |              |           |                                 | 1            |
| Anthropology                  | 6   |          |                                       |              |           |                                 | 6            |
| Architecture                  |   |          |                                       | 2            |           |                                 | 2            |
| Bacteriology                  | 12  |          |                                       |              |           |                                 | 12           |
| Biological Chemistry          | 8   |          |                                       |              |           |                                 | 8            |
| Botany                        | 17  |          |                                       |              |           |                                 | 17           |
| Business                      | 15  |          |                                       |              | 24        |                                 | 24           |
| Chemical Engineering          | 15  |          |                                       |              |           |                                 | 15           |
| Chemistry                     | 115   |          |                                       |              |           |                                 | 115          |
| Classical Archaeology         | 2   |          |                                       |              |           |                                 | 2            |
| Comparative Literature        | 6   |          |                                       |              |           |                                 | 6            |
| Economics                     | 113   |          |                                       |              |           |                                 | 113          |
| Education and Practical Arts  |   |          |                                       |              |           | 842<br>185 }                    | 1,027        |
| Electrical Engineering        |   |          | 3                                     |              |           |                                 | 3            |
| English                       | 233   |          |                                       |              |           |                                 | 233          |
| Geology                       | 19  |          |                                       |              |           |                                 | 19           |
| German                        | 12  |          |                                       |              |           |                                 | 12           |
| Greek                         | 1   |          |                                       |              |           |                                 | 1            |
| History                       | 151   |          |                                       |              |           |                                 | 151          |
| Indo-Iranian                  | 6   |          |                                       |              |           |                                 | 6            |
| International Law             | 10  |          |                                       |              |           |                                 | 10           |
| Latin                         | 26  |          |                                       |              |           |                                 | 26           |
| Mathematical Physics          | 1   |          |                                       |              |           |                                 | 1            |
| Mathematics                   | 35  |          |                                       |              |           |                                 | 35           |
| Mechanical Engineering        | 2   |          | 2                                     |              |           |                                 | 4            |
| Metallurgy                    | 5   |          |                                       |              |           |                                 | 5            |
| Mining                        | 3   |          |                                       |              |           |                                 | 3            |
| Music                         | 4   |          |                                       |              |           |                                 | 4            |
| Neurology                     | 2   |          |                                       |              |           |                                 | 2            |
| Pathology                     | 1   |          |                                       |              |           |                                 | 1            |
| Philosophy (including Ethics) | 65  |          |                                       |              |           |                                 | 65           |
| Physics                       | 19  |          |                                       |              |           |                                 | 19           |
| Physiology                    | 7   |          |                                       |              |           |                                 | 7            |
| Politics                      | 7   |          |                                       |              |           |                                 | 7            |
| Psychology                    | 69  |          |                                       |              |           |                                 | 69           |
| Public Law                    | 17  | 3        |                                       |              |           |                                 | 20           |
| Romance Languages             | 96  |          |                                       |              |           |                                 | 96           |
| Semitic Languages             | 8   |          |                                       |              |           |                                 | 8            |
| Slavonic Languages            | 5   |          |                                       |              |           |                                 | 5            |
| Social Economy                | 5   |          |                                       |              |           |                                 | 5            |
| Sociology and Statistics      | 114   |          |                                       |              |           |                                 | 114          |
| Zoology                       | 30  |          |                                       |              |           |                                 | 30           |
| <b>Total</b>                  | <b>1,249</b>  | <b>3</b> | <b>5</b>                              | <b>2</b>     | <b>24</b> | <b>1,027</b>                    | <b>2,310</b> |

TABLE IX

## A. SUMMARY BY DIVISIONS

| DIVISIONS                                   | Graduate<br>Faculties | Law      | Mines, Engineer-<br>ing and Chemistry | Architecture | Business  | Education and<br>Practical Arts | Total        |
|---|-----------------------|----------|---------------------------------------|--------------|-----------|---------------------------------|--------------|
| Anatomy                                     | 1                     |          |                                       |              |           |                                 | 1            |
| Ancient and Oriental Languages              | 48                    |          |                                       |              |           |                                 | 48           |
| Architecture                                |                       |          |                                       | 2            |           |                                 | 2            |
| Biology                                     | 76                    |          |                                       |              |           |                                 | 76           |
| Business                                    |                       |          |                                       |              | 24        |                                 | 24           |
| Chemistry                                   | 115                   |          |                                       |              |           |                                 | 115          |
| Education and Practical Arts                |                       |          |                                       |              |           | 1,027                           | 1,027        |
| Engineering                                 | 17                    |          | 5                                     |              |           |                                 | 22           |
| Geology and Mineralogy                      | 19                    |          |                                       |              |           |                                 | 19           |
| History, Economics, and Public Law          | 417                   |          |                                       |              |           |                                 | 417          |
| Law   |                       | 3        |                                       |              |           |                                 | 3            |
| Mathematics and Physical Science            | 55                    |          |                                       |              |           |                                 | 55           |
| Mining and Metallurgy                       | 8                     |          |                                       |              |           |                                 | 8            |
| Modern Languages and Literatures            | 347                   |          |                                       |              |           |                                 | 347          |
| Music                                       | 4                     |          |                                       |              |           |                                 | 4            |
| Philosophy, Psychology, and<br>Anthropology | 142                   |          |                                       |              |           |                                 | 142          |
| <i>Total</i>                                | <i>1,240</i>          | <i>3</i> | <i>5</i>                              | <i>2</i>     | <i>24</i> | <i>1,027</i>                    | <i>2,310</i> |

## B. SUMMARY BY FACULTIES

| FACULTIES                    | Number<br>of<br>Students |
|------------------------------|--------------------------|
| Graduate Faculties           | 1,240                    |
| Law                          | 3                        |
| Applied Science              | 5                        |
| Architecture                 | 2                        |
| Business                     | 24                       |
| Education and Practical Arts | 1,027                    |
| <i>Total</i>                 | <i>2,310</i>             |

TABLE X

## RESIDENCE OF STUDENTS

| 1919-1920                                    | College | Law | Medicine | Mines, Engineering<br>and Chemistry | Architecture | Journalism | Business | Dentistry | Graduate Faculties | Unclassified Students | Barnard College | Education and<br>Practical Arts | College of Pharmacy | Total |
|--|---------|-----|----------|-------------------------------------|--------------|------------|----------|-----------|--------------------|-----------------------|-----------------|---------------------------------|---------------------|-------|
| <b>UNITED STATES</b>                         |         |     |          |                                     |              |            |          |           |                    |                       |                 |                                 |                     |       |
| North Atlantic Division<br>(72.84 per cent.) | 1,694   | 335 | 370      | 108                                 | 36           | 56         | 149      | 4         | 770                | 81                    | 640             | 1,935                           | 506                 | 6,704 |
| Connecticut                                  | 34      | 14  | 13       | 1                                   | 1            | 1          | 7        |           | 9                  | 2                     | 12              | 65                              | 24                  | 183   |
| Maine  | 1       |     | 1        |                                     |              |            |          |           | 2                  |                       |                 | 23                              | 2                   | 30    |
| Massachusetts                                | 20      | 4   | 4        | 1                                   | 2            | 3          | 8        |           | 22                 | 6                     | 12              | 102                             | 1                   | 185   |
| New Hampshire                                | 4       |     | 7        |                                     |              | 1          |          |           | 6                  |                       | 3               | 11                              | 2                   | 34    |
| New Jersey                                   | 179     | 54  | 57       | 6                                   | 4            | 8          | 21       | 2         | 80                 | 6                     | 74              | 306                             | 81                  | 938   |
| New York                                     | 1,421   | 240 | 277      | 100                                 | 28           | 38         | 100      | 2         | 605                | 62                    | 523             | 1,216                           | 391                 | 5,009 |
| Pennsylvania                                 | 33      | 14  | 8        |                                     |              | 5          | 11       |           | 41                 | 4                     | 14              | 155                             | 4                   | 289   |
| Rhode Island                                 | 1       | 3   | 3        |                                     |              |            |          |           | 2                  |                       | 1               | 8                               | 1                   | 20    |
| Vermont                                      | 1       |     |          |                                     |              |            |          | 1         | 3                  | 1                     | 1               | 9                               |                     | 16    |
| South Atlantic Division<br>(4.62 per cent.)  | 29      | 33  | 10       | 6                                   | 5            | 21         | 20       |           | 71                 | 14                    | 35              | 178                             | 3                   | 423   |
| Delaware                                     |         | 2   |          |                                     |              |            | 1        |           | 3                  |                       |                 | 9                               |                     | 15    |
| District of Columbia                         | 6       | 1   | 1        | 3                                   | 1            | 2          | 4        |           | 3                  | 1                     | 1               | 11                              | 1                   | 35    |
| Florida                                      | 3       |     |          |                                     | 1            | 2          | 1        |           | 6                  |                       | 2               | 10                              |                     | 26    |
| Georgia                                      | 7       | 14  | 5        |                                     |              | 2          | 3        |           | 9                  | 3                     | 10              | 32                              |                     | 85    |
| Maryland                                     | 3       | 2   |          | 2                                   | 2            | 3          |          |           | 6                  | 2                     | 1               | 26                              |                     | 47    |
| North Carolina                               | 3       | 4   | 2        |                                     |              | 4          | 3        |           | 6                  | 2                     | 5               | 27                              |                     | 56    |
| South Carolina                               | 3       | 4   |          | 1                                   | 1            | 3          | 3        |           | 6                  | 4                     | 2               | 19                              | 1                   | 47    |
| Virginia                                     | 1       | 3   | 1        |                                     |              | 5          | 2        |           | 25                 | 1                     | 11              | 28                              |                     | 77    |
| West Virginia                                | 3       | 3   | 1        |                                     |              |            | 3        |           | 7                  | 1                     | 3               | 16                              |                     | 37    |
| South Central Division<br>(3.65 per cent.)   | 32      | 22  | 18       | 2                                   | 2            | 8          | 16       |           | 71                 | 4                     | 17              | 141                             | 3                   | 336   |
| Alabama                                      | 5       | 4   | 1        | 1                                   |              | 2          | 1        |           | 3                  |                       | 1               | 16                              | 2                   | 36    |
| Arkansas                                     | 3       | 3   | 2        |                                     |              |            |          |           | 1                  |                       | 3               | 10                              |                     | 22    |
| Kentucky                                     | 1       | 1   | 2        |                                     |              | 1          | 3        |           | 10                 | 1                     | 2               | 23                              |                     | 44    |
| Louisiana                                    | 4       | 3   | 1        |                                     | 1            |            | 1        |           | 4                  |                       | 2               | 7                               |                     | 23    |
| Mississippi                                  | 1       | 2   |          |                                     |              | 2          |          |           | 4                  | 2                     |                 | 6                               |                     | 17    |
| Oklahoma                                     | 3       |     |          |                                     |              |            | 3        |           | 6                  |                       |                 | 11                              |                     | 23    |
| Tennessee                                    | 3       | 3   | 4        | 1                                   |              |            | 4        |           | 9                  |                       | 3               | 17                              | 1                   | 45    |
| Texas  | 12      | 6   | 8        |                                     | 1            | 3          | 4        |           | 34                 | 1                     | 6               | 51                              |                     | 126   |
| North Central Division<br>(9.92 per cent.)   | 67      | 35  | 16       | 4                                   | 10           | 26         | 38       |           | 161                | 13                    | 38              | 503                             | 2                   | 913   |
| Illinois                                     | 10      | 4   | 4        |                                     | 2            | 4          | 3        |           | 23                 | 2                     | 5               | 72                              |                     | 129   |
| Indiana                                      | 8       | 3   | 1        |                                     |              |            | 2        |           | 18                 |                       | 5               | 43                              |                     | 80    |
| Iowa   | 4       | 3   |          |                                     | 1            | 3          | 5        |           | 21                 |                       | 1               | 46                              |                     | 84    |
| Kansas                                       | 3       | 2   |          |                                     |              | 2          | 2        |           | 6                  | 1                     |                 | 33                              |                     | 49    |
| Michigan                                     | 2       |     |          |                                     |              | 1          | 4        |           | 12                 | 2                     | 3               | 62                              |                     | 86    |
| Minnesota                                    | 5       | 2   |          |                                     | 2            | 1          | 2        |           | 15                 | 3                     | 5               | 39                              |                     | 74    |
| Missouri                                     | 5       | 4   | 1        | 1                                   |              | 5          | 9        |           | 6                  |                       | 5               | 40                              | 1                   | 80    |
| Nebraska                                     | 5       | 1   | 1        |                                     | 1            |            |          |           | 6                  |                       | 5               | 25                              |                     | 44    |
| North Dakota                                 | 1       |     |          |                                     |              |            |          |           | 2                  |                       |                 | 7                               |                     | 11    |
| Ohio   | 21      | 14  | 6        | 2                                   | 2            | 7          | 8        |           | 32                 | 3                     | 7               | 91                              | 1                   | 194   |
| South Dakota                                 | 2       | 1   |          |                                     |              |            |          |           | 2                  |                       |                 | 7                               |                     | 13    |
| Wisconsin                                    | 1       |     | 3        | 1                                   | 2            | 2          | 3        |           | 15                 | 2                     | 2               | 38                              |                     | 69    |

TABLE X—(Continued)

| 1919-1920   | College | Law | Medicine | Mines, Engineering and Chemistry | Architecture | Journalism | Business | Dentistry | Graduate Faculties | Unclassified Students | Barnard College | Education and Practical Arts | College of Pharmacy | Total |
|---|---------|-----|----------|----------------------------------|--------------|------------|----------|-----------|--------------------|-----------------------|-----------------|------------------------------|---------------------|-------|
| <b>Western Division</b><br>(3.26 per cent.)                       | 37      | 16  | 16       | 7                                | 2            | 7          | 11       |           | 51                 | 3                     | 11              | 138                          | 1                   | 300   |
| Arizona   | 3       | 1   | 1        |                                  |              | 1          |          |           |                    |                       | 1               | 1                            |                     | 8     |
| California  | 13      | 1   | 1        |                                  | 2            | 1          | 3        |           | 22                 | 2                     | 1               | 53                           | 1                   | 100   |
| Colorado  | 5       | 4   | 1        | 1                                |              | 2          | 2        |           | 1                  | 2                     | 2               | 24                           |                     | 42    |
| Idaho   |         | 1   | 1        | 1                                |              | 1          |          |           |                    |                       |                 | 6                            |                     | 9     |
| Montana   | 2       | 1   | 1        | 1                                |              |            | 1        |           | 2                  | 1                     | 1               | 5                            |                     | 14    |
| Nevada  | 1       |     |          |                                  |              |            |          |           | 1                  |                       |                 | 1                            |                     | 3     |
| New Mexico  | 1       | 1   |          | 2                                |              | 1          | 1        |           |                    |                       |                 | 1                            |                     | 6     |
| Oregon  | 4       | 5   | 1        |                                  |              | 1          | 1        |           | 10                 | 1                     | 2               | 15                           |                     | 40    |
| Utah  | 3       | 1   | 8        |                                  |              |            | 1        |           | 5                  |                       |                 | 6                            |                     | 24    |
| Washington  | 3       |     | 2        | 3                                |              |            |          |           | 9                  |                       | 2               | 24                           |                     | 45    |
| Wyoming   | 2       | 1   |          |                                  |              | 1          | 2        |           | 1                  |                       | 2               | 2                            |                     | 9     |
| <b>Insular and Non-contiguous Territories</b><br>(0.53 per cent.) | 2       |     | 3        |                                  | 1            | 1          | 7        |           | 8                  | 7                     | 1               | 14                           | 5                   | 40    |
| Canal Zone  | 1       |     |          |                                  |              |            |          |           |                    |                       |                 |                              |                     | 1     |
| Hawaiian Islands  |         |     |          |                                  | 1            |            |          |           | 1                  |                       |                 | 2                            |                     | 4     |
| Philippine Islands  | 1       |     | 2        |                                  |              | 1          | 7        |           | 7                  | 6                     |                 | 7                            |                     | 31    |
| Porto Rico  |         |     | 1        |                                  |              |            |          |           |                    | 1                     | 1               | 4                            | 5                   | 12    |
| Virgin Islands  |         |     |          |                                  |              |            |          |           |                    |                       |                 | 1                            |                     | 1     |
| <b>Totals</b>   | 1,861   | 441 | 433      | 127                              | 56           | 110        | 241      | 4         | 1,132              | 122                   | 742             | 2,020                        | 520                 | 8,727 |
| <b>New York City</b><br>(40.22 per cent.)                         | 1,149   | 188 | 171      | 76                               | 18           | 30         | 70       | 2         | 498                | 50                    | 379             | 754                          | 317                 | 3,702 |
| <b>FOREIGN COUNTRIES</b>  |         |     |          |                                  |              |            |          |           |                    |                       |                 |                              |                     |       |
| Argentina   | 1       |     |          |                                  |              |            |          |           |                    |                       |                 |                              |                     | 1     |
| Armenia   |         |     | 1        |                                  |              |            |          |           | 1                  |                       |                 | 1                            |                     | 3     |
| Australia   |         |     |          |                                  |              |            |          |           | 1                  | 1                     |                 | 2                            |                     | 4     |
| Bahamas   | 1       |     |          |                                  |              |            |          |           |                    |                       |                 |                              |                     | 1     |
| Bavaria   |         |     |          |                                  |              |            |          |           |                    |                       |                 | 1                            |                     | 1     |
| Belgium   |         |     |          |                                  |              |            |          |           |                    |                       |                 | 2                            |                     | 2     |
| Brazil  | 1       |     |          |                                  |              |            |          |           |                    |                       |                 |                              |                     | 1     |
| Canada  | 8       | 2   | 4        |                                  | 1            | 1          | 1        |           | 21                 | 1                     | 6               | 60                           |                     | 105   |
| Central America   | 1       |     | 2        |                                  |              |            |          |           |                    |                       |                 |                              |                     | 3     |
| Chile   |         |     |          | 1                                |              |            |          |           |                    |                       |                 | 1                            |                     | 2     |
| China   | 8       | 2   | 1        | 4                                |              |            | 11       |           | 57                 | 7                     | 1               | 51                           |                     | 144   |
| Colombia  |         |     | 1        |                                  | 1            |            |          |           |                    |                       |                 | 1                            |                     | 3     |
| Cuba  | 2       | 2   | 1        | 1                                |              |            |          |           |                    |                       |                 | 2                            |                     | 8     |
| Denmark   |         |     |          |                                  |              |            |          |           | 1                  |                       | 2               |                              |                     | 3     |
| France  | 1       | 1   |          |                                  |              |            | 1        |           | 2                  | 2                     | 4               |                              |                     | 12    |
| Germany   | 1       |     |          |                                  |              |            |          |           |                    |                       |                 | 1                            |                     | 2     |
| Great Britain   |         |     |          |                                  |              |            |          |           | 5                  | 1                     |                 | 6                            |                     | 12    |
| Greece  |         |     |          |                                  |              |            |          |           | 1                  |                       |                 | 1                            |                     | 2     |
| Guatemala   |         |     | 1        |                                  |              |            |          |           |                    |                       |                 |                              |                     | 1     |
| Iceland   |         |     |          |                                  |              |            |          |           |                    |                       |                 | 1                            |                     | 1     |
| India   | 3       |     |          |                                  |              |            |          |           | 1                  |                       |                 | 5                            | 1                   | 10    |
| Ireland   |         |     |          |                                  |              |            |          |           |                    |                       |                 | 1                            |                     | 1     |
| Isle of Cyprus  | 2       | 1   |          |                                  |              |            |          |           |                    |                       |                 |                              |                     | 3     |
| Italy   |         | 1   | 1        |                                  | 1            | 1          | 9        |           | 25                 | 26                    |                 | 21                           |                     | 85    |
| Japan   |         |     |          |                                  |              |            |          |           |                    |                       |                 |                              |                     |       |

TABLE X—(Continued)

| 1919-1920              | College | Law | Medicine | Mines, Engineering<br>and Chemistry | Architecture | Journalism | Business | Dentistry | Graduate Faculties | Unclassified Students | Barnard College | Education and<br>Practical Arts | College of Pharmacy | Total |
|------------------------|---------|-----|----------|-------------------------------------|--------------|------------|----------|-----------|--------------------|-----------------------|-----------------|---------------------------------|---------------------|-------|
| Korea                  | 2       |     |          |                                     |              |            |          |           |                    | 1                     |                 | 2                               |                     | 5     |
| Liberia                |         |     |          |                                     |              |            |          |           |                    |                       |                 | 2                               |                     | 2     |
| Mexico                 |         |     |          |                                     | 1            | 1          |          |           |                    | 1                     |                 | 6                               |                     | 7     |
| Newfoundland           |         |     |          |                                     |              |            |          |           |                    |                       |                 | 2                               |                     | 2     |
| Nicaragua              |         |     |          |                                     |              |            |          |           |                    |                       |                 | 1                               |                     | 1     |
| Norway                 |         |     |          |                                     |              | 1          | 1        |           | 1                  |                       |                 | 1                               |                     | 4     |
| Panama                 |         | 1   |          |                                     |              |            |          |           |                    |                       |                 |                                 | 1                   | 3     |
| Persia                 | 1       |     |          |                                     |              |            |          |           |                    |                       |                 |                                 |                     | 1     |
| Peru                   | 1       |     |          | 1                                   | 1            |            |          |           |                    |                       |                 |                                 |                     | 3     |
| Roumania               | 4       |     | 1        | 1                                   |              |            |          |           |                    |                       |                 |                                 |                     | 6     |
| Russia                 |         |     |          | 1                                   |              |            |          |           |                    | 1                     |                 | 3                               |                     | 5     |
| Santo Domingo          |         |     |          |                                     |              |            |          |           |                    |                       |                 | 1                               | 1                   | 2     |
| Siam                   | 2       |     |          |                                     |              |            |          |           |                    |                       |                 | 7                               |                     | 9     |
| South Africa           |         |     |          |                                     |              |            |          |           |                    |                       |                 |                                 |                     | 2     |
| Spain                  |         |     |          |                                     |              |            |          |           |                    |                       | 3               |                                 |                     | 3     |
| Sweden                 |         |     |          |                                     |              |            |          | 4         |                    |                       |                 |                                 |                     | 4     |
| Switzerland            |         |     |          |                                     |              |            |          |           | 1                  |                       |                 |                                 | 1                   | 2     |
| Turkey in Asia         |         |     |          |                                     |              |            |          | 1         |                    |                       |                 |                                 | 1                   | 2     |
| West Indies            |         |     |          |                                     |              |            |          |           |                    |                       |                 | 4                               |                     | 4     |
| Total (5.18 per cent.) | 40      | 10  | 13       | 9                                   | 7            | 4          | 28       |           | 117                | 44                    | 13              | 189                             | 3                   | 477   |
| Grand Total            | 1,001   | 451 | 446      | 136                                 | 63           | 123        | 269      | 4         | 1,240              | 166                   | 755             | 3,118                           | 523                 | 9,204 |
| Duplicates             |         |     |          |                                     |              |            |          |           |                    |                       |                 |                                 |                     | 87    |
| Grand Total (Net)      |         |     |          |                                     |              |            |          |           |                    |                       |                 |                                 |                     | 9,117 |



TABLE XI

RESIDENCE OF THE STUDENTS OF THE ENTIRE UNIVERSITY (EXCLUDING  
SUMMER SESSION AND EXTENSION TEACHING) FOR THE PAST TEN YEARS

|                         | 1910-1911 | 1911-1912 | 1912-1913 | 1913-1914 | 1914-1915 | 1915-1916 | 1916-1917 | 1917-1918 | 1918-1919 | 1919-1920 |
|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>UNITED STATES</b>    |           |           |           |           |           |           |           |           |           |           |
| North Atlantic Division | 4,679     | 4,716     | 5,209     | 5,515     | 5,004     | 6,128     | 6,325     | 5,514     | 5,286     | 6,704     |
| Connecticut             | 95        | 119       | 134       | 110       | 125       | 143       | 153       | 143       | 135       | 183       |
| Maine                   | 33        | 32        | 24        | 31        | 29        | 15        | 32        | 36        | 23        | 30        |
| Massachusetts           | 86        | 108       | 118       | 130       | 150       | 164       | 187       | 149       | 112       | 185       |
| New Hampshire           | 10        | 11        | 17        | 16        | 23        | 21        | 20        | 18        | 19        | 34        |
| New Jersey              | 569       | 562       | 636       | 627       | 752       | 752       | 864       | 742       | 709       | 938       |
| New York                | 3,076     | 3,603     | 4,021     | 4,351     | 4,539     | 4,738     | 4,756     | 4,181     | 4,061     | 5,009     |
| Pennsylvania            | 175       | 236       | 224       | 209       | 247       | 239       | 270       | 214       | 196       | 289       |
| Rhode Island            | 16        | 16        | 19        | 18        | 16        | 19        | 17        | 7         | 11        | 20        |
| Vermont                 | 19        | 29        | 16        | 23        | 23        | 37        | 26        | 24        | 20        | 16        |
| South Atlantic Division | 210       | 234       | 284       | 280       | 240       | 272       | 288       | 257       | 242       | 425       |
| Delaware                | 4         | 4         | 1         | 5         | 4         | 5         | 5         | 3         | 3         | 15        |
| District of Columbia    | 14        | 24        | 28        | 23        | 17        | 22        | 29        | 24        | 20        | 35        |
| Florida                 | 7         | 9         | 12        | 15        | 13        | 11        | 7         | 7         | 5         | 26        |
| Georgia                 | 35        | 30        | 48        | 51        | 34        | 55        | 65        | 48        | 54        | 85        |
| Maryland                | 38        | 37        | 38        | 33        | 39        | 52        | 44        | 40        | 39        | 47        |
| North Carolina          | 26        | 40        | 51        | 51        | 30        | 28        | 28        | 40        | 23        | 56        |
| South Carolina          | 30        | 29        | 24        | 26        | 30        | 26        | 33        | 20        | 30        | 47        |
| Virginia                | 46        | 49        | 70        | 59        | 61        | 64        | 58        | 50        | 47        | 77        |
| West Virginia           | 10        | 12        | 12        | 17        | 12        | 9         | 19        | 25        | 21        | 37        |
| South Central Division  | 133       | 154       | 147       | 160       | 170       | 178       | 213       | 152       | 190       | 336       |
| Alabama                 | 28        | 39        | 28        | 25        | 20        | 23        | 26        | 22        | 18        | 36        |
| Arkansas                | 4         | 7         | 5         | 6         | 14        | 12        | 17        | 6         | 16        | 22        |
| Kentucky                | 19        | 22        | 16        | 19        | 25        | 30        | 33        | 30        | 31        | 44        |
| Louisiana               | 6         | 8         | 7         | 9         | 11        | 9         | 9         | 8         | 13        | 23        |
| Mississippi             | 19        | 12        | 11        | 13        | 15        | 9         | 8         | 8         | 11        | 17        |
| Oklahoma                | 7         | 11        | 11        | 16        | 13        | 14        | 17        | 7         | 9         | 23        |
| Tennessee               | 27        | 23        | 28        | 33        | 37        | 35        | 41        | 27        | 30        | 45        |
| Texas                   | 23        | 32        | 41        | 39        | 35        | 46        | 62        | 44        | 62        | 126       |
| North Central Division  | 514       | 532       | 517       | 577       | 603       | 661       | 731       | 630       | 570       | 913       |
| Illinois                | 71        | 67        | 58        | 76        | 74        | 87        | 87        | 59        | 75        | 129       |
| Indiana                 | 63        | 72        | 58        | 71        | 62        | 85        | 76        | 49        | 51        | 80        |
| Iowa                    | 41        | 40        | 36        | 41        | 45        | 58        | 65        | 68        | 57        | 84        |
| Kansas                  | 30        | 22        | 27        | 36        | 34        | 51        | 46        | 32        | 38        | 49        |
| Michigan                | 54        | 54        | 49        | 52        | 65        | 76        | 66        | 65        | 59        | 86        |
| Minnesota               | 37        | 40        | 44        | 34        | 51        | 45        | 58        | 51        | 44        | 74        |
| Missouri                | 49        | 44        | 49        | 42        | 64        | 46        | 82        | 59        | 38        | 80        |
| Nebraska                | 16        | 22        | 21        | 22        | 28        | 25        | 25        | 22        | 29        | 44        |
| North Dakota            | 3         | 4         | 4         | 18        | 12        | 9         | 7         | 12        | 8         | 11        |
| Ohio                    | 107       | 127       | 130       | 139       | 134       | 136       | 162       | 144       | 118       | 194       |
| South Dakota            | 4         | 5         | 4         | 7         | 5         | 7         | 14        | 9         | 11        | 13        |
| Wisconsin               | 39        | 35        | 37        | 39        | 29        | 36        | 63        | 69        | 51        | 69        |
| Western Division        | 152       | 171       | 168       | 194       | 182       | 182       | 271       | 228       | 161       | 300       |
| Arizona                 | 5         | 4         | 4         | 4         | 1         | 3         | 4         | 9         | 3         | 8         |
| California              | 55        | 64        | 67        | 71        | 67        | 61        | 103       | 73        | 45        | 100       |
| Colorado                | 23        | 37        | 28        | 29        | 28        | 29        | 30        | 35        | 30        | 42        |
| Idaho                   | 2         | 2         | 7         | 5         | 4         | 11        | 9         | 7         | 5         | 14        |
| Montana                 | 10        | 7         | 7         | 9         | 7         | 10        | 8         | 13        | 8         | 14        |
| Nevada                  | 1         | 2         | 3         | 2         | 1         | 1         | 2         | 1         | 1         | 3         |
| New Mexico              | 2         | 2         | 3         | 4         | 8         | 6         | 4         | 9         | 2         | 6         |
| Oregon                  | 14        | 14        | 12        | 18        | 11        | 14        | 30        | 20        | 17        | 40        |
| Utah                    | 12        | 14        | 17        | 27        | 19        | 17        | 19        | 21        | 19        | 24        |
| Washington              | 26        | 24        | 17        | 22        | 32        | 29        | 53        | 35        | 29        | 45        |
| Wyoming                 | 2         | 3         | 3         | 3         | 4         | 1         | 3         | 5         | 2         | 9         |

TABLE XI—(Continued)

|  | 1910-1911 | 1911-1912 | 1912-1913 | 1913-1914 | 1914-1915 | 1915-1916 | 1916-1917 | 1917-1918 | 1918-1919 | 1919-1920 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Insular and Non-contiguous Territories | 14        | 10        | 17        | 17        | 13        | 13        | 20        | 22        | 19        | 49        |
| Alaska                                 | 1         |           | 1         | 2         | 1         | 1         |           |           |           |           |
| Canal Zone                             |           |           |           |           |           |           |           |           | 1         | 1         |
| Hawaiian Islands                       | 5         | 5         | 5         | 4         | 3         | 7         | 4         | 3         | 2         | 4         |
| Philippine Islands                     |           |           | 3         | 5         | 4         |           | 4         | 9         | 9         | 31        |
| Porto Rico                             | 8         | 5         | 8         | 6         | 5         | 5         | 11        | 6         | 7         | 12        |
| Virgin Islands                         |           |           |           |           |           |           |           |           |           | 1         |
| Totals (United States)                 | 5,702     | 5,817     | 6,342     | 6,934     | 7,112     | 7,434     | 7,868     | 6,808     | 6,477     | 8,727     |
| New York City                          | 2,931     | 2,846     | 3,194     | 3,368     | 3,613     | 3,509     | 3,670     | 3,091     | 3,163     | 3,702     |
| FOREIGN COUNTRIES                      |           |           |           |           |           |           |           |           |           |           |
| Albania                                |           |           |           |           |           |           |           |           | 1         |           |
| Argentina                              |           |           |           |           | 2         | 2         | 5         | 1         |           | 1         |
| Armenia                                |           |           |           |           |           |           | 3         | 5         | 6         | 3         |
| Australia                              | 3         | 1         | 3         | 2         | 2         | 1         | 3         | 2         | 2         | 4         |
| Austria-Hungary                        |           | 9         | 1         |           |           | 1         | 2         |           |           |           |
| Bavaria                                |           |           |           |           |           |           |           |           |           | 1         |
| Bermuda and Bahamas                    |           | 1         |           |           |           | 1         | 1         |           | 1         | 1         |
| Brasil                                 | 1         | 3         | 2         | 2         | 1         | 2         | 1         | 1         |           | 1         |
| Belgium                                |           |           |           | 3         | 2         |           | 1         | 1         |           | 2         |
| Bulgaria                               | 1         |           |           |           |           |           | 2         | 1         |           |           |
| Bolivia                                |           | 1         |           |           |           |           |           |           |           |           |
| Canada                                 | 53        | 61        | 44        | 42        | 43        | 48        | 51        | 46        | 54        | 105       |
| Central America                        |           |           |           |           |           |           |           |           | 2         | 3         |
| Chile                                  | 2         | 2         | 1         |           |           | 1         | 1         | 2         | 3         | 2         |
| China                                  | 39        | 52        | 56        | 51        | 68        | 62        | 69        | 114       | 123       | 144       |
| Colombia                               |           | 1         | 1         | 2         | 2         | 1         | 1         | 1         | 3         | 3         |
| Costa Rica                             |           | 1         | 2         | 3         | 2         | 2         | 2         | 1         |           |           |
| Cuba                                   | 3         | 8         | 6         | 10        | 8         | 8         | 9         | 12        | 10        | 8         |
| Denmark                                | 1         |           |           |           | 2         |           | 1         | 1         | 3         | 3         |
| Ecuador                                |           |           |           |           |           |           |           | 1         |           |           |
| Egypt                                  |           |           |           |           | 2         | 2         | 1         |           |           |           |
| Finland                                |           |           |           |           | 2         | 1         | 1         |           |           |           |
| France                                 | 5         | 3         |           | 3         | 2         | 2         | 1         | 2         | 3         | 12        |
| Germany                                | 12        | 25        | 5         | 6         | 3         | 8         | 6         | 3         | 3         | 2         |
| Great Britain                          | 9         | 9         | 7         | 8         | 7         | 11        | 8         | 4         | 5         | 12        |
| Greece                                 |           | 2         | 1         | 2         | 2         |           | 1         | 1         |           | 2         |
| Guatemala                              |           |           |           |           |           |           |           | 1         |           | 1         |
| Holland                                | 3         | 1         |           |           |           |           | 4         |           |           |           |
| Iceland                                |           |           |           |           |           |           | 1         | 1         | 2         | 1         |
| India                                  | 6         | 5         | 4         | 6         | 12        | 5         | 12        | 3         | 8         | 10        |
| Ireland                                |           |           |           |           |           |           |           |           |           | 1         |
| Isle of Cyprus                         |           |           |           |           |           |           |           |           |           | 3         |
| Italy                                  |           | 5         | 3         | 2         | 2         | 4         | 1         | 2         | 1         | 1         |
| Japan                                  | 27        | 19        | 23        | 17        | 20        | 41        | 30        | 56        | 82        | 85        |
| Korea                                  |           |           |           |           | 1         |           |           | 1         | 1         | 2         |
| Liberia                                |           |           |           |           |           |           |           | 1         | 1         | 1         |
| Mexico                                 | 8         | 4         | 3         | 4         | 2         | 3         | 3         | 7         | 5         | 7         |
| Newfoundland                           |           |           |           |           |           | 2         | 1         | 1         |           | 1         |
| Nicaragua                              |           | 1         | 2         | 2         | 1         | 2         | 1         |           | 1         | 2         |
| Norway                                 |           | 1         | 1         | 1         |           | 2         |           | 3         | 5         | 4         |
| New Zealand                            |           |           |           | 1         | 1         |           |           |           |           |           |
| Panama                                 | 2         |           | 2         | 2         | 4         | 4         | 3         | 4         | 3         | 3         |
| Peru                                   |           | 1         | 1         | 2         | 3         | 5         |           | 1         | 1         | 4         |
| Persia                                 | 1         |           |           | 1         | 1         |           |           | 3         | 3         | 1         |
| Poland                                 | 1         |           |           |           |           |           |           | 1         | 2         |           |
| Portugal                               |           |           |           |           |           |           | 1         | 1         |           |           |
| Rumania                                |           |           |           |           | 1         |           | 2         | 2         |           | 6         |
| Russia                                 | 1         | 22        |           | 2         | 4         | 5         | 5         | 9         | 6         | 5         |
| Santo Domingo                          |           |           |           |           |           |           | 1         | 2         | 2         | 2         |
| Siam                                   |           |           |           |           | 2         |           | 1         |           | 2         | 2         |
| Singapore                              |           |           |           |           |           |           |           | 1         | 1         |           |

TABLE XI—(Continued)

|                            | 1910-1911 | 1911-1912 | 1912-1913 | 1913-1914 | 1914-1915 | 1915-1916 | 1916-1917 | 1917-1918 | 1918-1919 | 1919-1920 |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| South Africa               | 2         |           | 1         | 2         | 4         | 4         | 3         | 3         | 3         | 7         |
| Spain                      | 1         | 1         |           |           |           | 1         | 8         | 1         | 1         | 3         |
| Sweden                     | 1         | 1         |           | 2         |           | 2         | 2         | 2         | 2         | 4         |
| Switzerland                | 1         |           |           |           | 1         |           | 1         | 1         | 2         | 2         |
| Syria                      |           |           |           |           | 3         | 1         |           |           |           |           |
| Turkey in Europe           | 7         | 10        | 12        | 9         | 11        | 7         | 4         |           |           |           |
| Turkey in Asia             | 1         | 2         | 2         | 2         |           | 5         | 2         | 5         | 3         | 2         |
| Uruguay                    |           |           |           |           |           | 1         | 1         |           | 1         |           |
| Venezuela                  |           |           |           |           |           |           |           | 2         |           |           |
| West Indies                | 1         | 2         |           | 2         | 1         | 1         | 2         | 5         | 2         | 4         |
| Totals (Foreign Countries) | 191       | 256       | 183       | 191       | 222       | 245       | 262       | 318       | 361       | 477       |
| Grand Total                | 5,893     | 6,073     | 6,525     | 6,034     | 7,334     | 7,679     | 8,130     | 7,126     | 6,838     | 9,204     |
| Duplicates                 |           |           |           |           |           |           |           |           |           | 87        |
| Grand Total (Net)          |           |           |           |           |           |           |           |           |           | 9,117     |

TABLE XIa

THE PERCENTAGE OF STUDENTS FROM THE SEVERAL GEOGRAPHICAL DIVISIONS  
DURING THE LAST TEN YEARS

|                         | 1910-1911 | 1911-1912 | 1912-1913 | 1913-1914 | 1914-1915 | 1915-1916 | 1916-1917 | 1917-1918 | 1918-1919 | 1919-1920 |
|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| North Atlantic Division | 79.40     | 77.65     | 79.84     | 79.53     | 80.51     | 79.86     | 78.14     | 77.38     | 77.30     | 72.84     |
| South Atlantic Division | 3.56      | 3.85      | 4.35      | 4.03      | 3.27      | 3.55      | 3.56      | 3.61      | 3.54      | 4.62      |
| South Central Division  | 2.26      | 2.54      | 2.25      | 2.30      | 2.32      | 2.30      | 2.63      | 2.13      | 2.78      | 3.65      |
| North Central Division  | 8.72      | 8.76      | 7.92      | 8.32      | 8.22      | 8.62      | 9.28      | 8.97      | 8.47      | 9.92      |
| Western Division        | 2.58      | 2.82      | 2.58      | 2.79      | 2.48      | 2.37      | 3.34      | 3.19      | 2.35      | 3.26      |
| Insular Territories     | 0.24      | 0.16      | 0.26      | 0.24      | 0.17      | 0.17      | 0.25      | 0.31      | 0.28      | 0.53      |
| Foreign Countries       | 3.24      | 4.22      | 2.80      | 2.75      | 3.02      | 3.13      | 3.22      | 4.41      | 5.28      | 5.18      |

TABLE XII

## SOURCE OF HIGHER DEGREES HELD BY STUDENTS

*Note: The inclusion of an institution in this Table does not necessarily signify the recognition of its degrees by Columbia University.*

## A. HIGHER INSTITUTIONS IN THE UNITED STATES

| 1919-1920                                   | College | Law | Medicine | Mines, Engineering<br>and Chemistry | Architecture | Journalism | Business | Dentistry | Graduate Faculties | Unclassified<br>University Students | Education and<br>Practical Arts | Total |
|---|---------|-----|----------|-------------------------------------|--------------|------------|----------|-----------|--------------------|-------------------------------------|---------------------------------|-------|
| Adelphi College                             |         |     |          |                                     |              |            |          |           | 11                 |                                     | 9                               | 21    |
| Adrian College                              |         | 1   |          |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Agnes Scott College                         |         |     |          |                                     |              |            |          |           | 3                  |                                     |                                 | 3     |
| Alabama Polytechnic Institute               |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Alabama Presbyterian College                |         | 1   |          |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Albany Normal College                       |         |     |          |                                     |              |            |          |           | 2                  |                                     |                                 | 2     |
| Albert Lea College                          |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Albion College                              |         |     |          |                                     |              |            |          |           | 2                  | 1                                   | 1                               | 4     |
| Alfred University                           |         |     |          |                                     |              | 1          |          |           |                    |                                     | 1                               | 2     |
| Allegheny College                           |         |     | 1        |                                     |              |            |          |           | 2                  |                                     | 3                               | 6     |
| Alvord University                           |         |     |          |                                     |              |            |          |           |                    | 1                                   |                                 | 1     |
| American Veterinary College                 |         |     |          |                                     | 1            |            |          |           |                    |                                     |                                 | 1     |
| Amherst College                             |         | 13  | 1        |                                     |              |            |          |           | 10                 |                                     | 1                               | 25    |
| Antioch College                             |         | 1   |          |                                     |              | 1          |          |           |                    |                                     |                                 | 2     |
| Atlanta College                             |         |     | 1        |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Atlanta Law School                          |         | 1   |          |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Bailey University                           |         |     |          |                                     |              |            |          |           | 3                  | 1                                   |                                 | 4     |
| Baker University                            |         |     |          |                                     |              |            |          |           |                    |                                     | 5                               | 5     |
| Baldwin Wallace College                     |         |     |          | 1                                   |              |            |          |           | 4                  |                                     | 1                               | 6     |
| Bates College                               |         |     |          |                                     |              |            |          |           | 1                  |                                     | 3                               | 3     |
| Baylor University                           |         |     | 1        |                                     |              |            | 1        |           |                    |                                     | 3                               | 5     |
| Beloit College                              |         |     |          |                                     |              |            |          |           | 2                  |                                     |                                 | 2     |
| Berea College                               |         |     |          |                                     |              |            |          |           | 1                  |                                     | 1                               | 2     |
| Bessie Tift College                         |         |     |          |                                     |              |            |          |           |                    |                                     | 2                               | 2     |
| Bethany College                             |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 2     |
| Bethel College                              |         | 1   |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| Bluffton College                            |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| Boston University                           |         |     |          |                                     |              |            |          |           | 5                  |                                     | 4                               | 9     |
| Bowdoin College                             |         |     |          |                                     |              |            |          |           | 1                  |                                     | 3                               | 4     |
| Bridgewater College                         |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Bradley College                             |         |     |          |                                     |              | 1          |          |           |                    |                                     |                                 | 1     |
| Brenau College                              |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Brigham Young University                    |         |     | 1        |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Brooklyn College                            |         |     | 1        |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Brooklyn Polytechnic Institute              |         |     |          |                                     |              |            |          |           | 2                  |                                     |                                 | 2     |
| Brown University                            |         | 4   | 1        |                                     |              |            |          |           | 4                  |                                     | 13                              | 22    |
| Bryn Mawr College                           |         |     | 4        |                                     |              |            |          |           | 12                 |                                     | 7                               | 23    |
| Bucknell University                         |         |     |          |                                     |              |            |          |           | 2                  |                                     | 2                               | 4     |
| Buffalo University                          |         |     | 2        |                                     |              |            |          |           |                    |                                     |                                 | 2     |
| Butler College                              |         |     |          |                                     |              |            |          |           | 1                  |                                     | 1                               | 2     |
| Cambridge Episcopal Theological<br>Seminary |         |     |          |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Canisius College                            |         | 1   | 1        |                                     |              |            |          |           | 1                  |                                     |                                 | 3     |
| Capital University (Ohio)                   |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Carleton College                            |         |     |          |                                     |              |            |          |           | 2                  |                                     | 3                               | 5     |
| Carnegie Institute of Technology            |         |     |          | 1                                   |              |            |          |           | 2                  |                                     | 1                               | 4     |
| Carroll College                             |         |     |          | 1                                   |              |            |          |           |                    |                                     |                                 | 1     |
| Carthage College                            |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Case School of Applied Science              |         |     |          |                                     |              |            | 1        |           |                    |                                     |                                 | 1     |
| Catholic University of America              |         | 1   |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Center College                              |         |     |          |                                     |              |            |          |           | 2                  |                                     |                                 | 2     |
| Central College                             |         |     |          |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Central College of Missouri                 |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |

TABLE XII—(Continued)

| 1919-1920                         | College | Law | Medicine | Mines, Engineering<br>and Chemistry | Architecture | Journalism | Business | Dentistry | Graduate Faculties | Unclassified<br>University Students | Education and<br>Practical Arts | Total |
|-----------------------------------|---------|-----|----------|-------------------------------------|--------------|------------|----------|-----------|--------------------|-------------------------------------|---------------------------------|-------|
| Central Theological Seminary      |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Central University of Kentucky    |         |     |          |                                     |              |            |          |           | 1                  |                                     | 1                               | 2     |
| Chicora College of South Carolina |         |     |          |                                     |              |            |          |           |                    |                                     | 2                               | 2     |
| Claffin University                |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| Clark College                     |         |     |          |                                     |              |            |          |           | 3                  |                                     | 4                               | 7     |
| Clark University                  |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Clemson A. & M. College           |         | 1   |          |                                     |              |            |          |           |                    | 1                                   |                                 | 2     |
| Coe College                       |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| Colby College                     |         |     | 1        |                                     |              |            |          |           | 2                  |                                     | 4                               | 7     |
| Colgate University                |         | 5   |          |                                     |              |            |          |           | 4                  | 1                                   | 10                              | 20    |
| College of Charleston             |         | 1   |          |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| College of the City of New York   | 3       | 32  | 22       | 8                                   | 1            | 3          | 2        | 2         | 85                 | 1                                   | 28                              | 187   |
| College of Emporia                |         |     |          |                                     |              | 1          |          |           | 1                  |                                     |                                 | 2     |
| College of Mount St. Vincent      |         |     |          |                                     |              |            |          |           | 2                  |                                     |                                 | 2     |
| College of St. Catherine          |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| College of Industrial Arts        |         |     |          |                                     |              |            |          |           |                    |                                     | 3                               | 3     |
| College of New Rochelle           |         |     |          |                                     |              |            |          |           | 2                  | 1                                   | 1                               | 4     |
| College of St. Elizabeth          |         |     |          |                                     |              |            |          |           | 1                  |                                     | 1                               | 3     |
| College of Wooster                |         |     | 1        |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| Colorado College                  |         |     |          |                                     |              | 1          | 1        |           | 1                  |                                     | 2                               | 5     |
| Colorado School of Mines          |         |     |          | 2                                   |              |            |          |           | 1                  |                                     |                                 | 3     |
| Colorado State Teachers College   |         |     |          |                                     |              |            |          |           |                    |                                     | 9                               | 9     |
| Connecticut University            |         | 77  | 119      | 66                                  | 5            | 3          | 9        |           | 363                | 15                                  | 317                             | 974   |
| Connecticut College               |         |     |          |                                     |              |            |          |           | 2                  |                                     |                                 | 2     |
| Converse College                  |         |     |          |                                     |              |            |          |           | 2                  |                                     | 2                               | 4     |
| Cooper Union                      | 1       |     |          | 1                                   |              |            |          |           | 1                  |                                     |                                 | 3     |
| Cornell College (Iowa)            |         | 1   |          |                                     |              |            | 3        |           | 2                  |                                     | 9                               | 15    |
| Cornell University                |         | 13  | 1        |                                     |              |            |          |           | 29                 | 1                                   | 15                              | 59    |
| Dartmouth College                 |         |     |          | 1                                   |              |            |          |           |                    | 1                                   |                                 | 1     |
| Davidson College                  |         | 4   | 8        | 1                                   |              |            |          |           | 8                  |                                     | 7                               | 28    |
| Denison University                |         | 1   | 1        |                                     |              |            |          |           | 1                  |                                     | 2                               | 5     |
| DePauw University                 |         | 1   |          |                                     |              |            |          |           | 3                  |                                     | 1                               | 4     |
| Des Moines College                |         |     |          |                                     |              |            |          |           | 2                  |                                     | 3                               | 6     |
| Detroit College                   |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| Dickinson College                 |         | 1   |          |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Doane College                     |         |     |          |                                     |              |            |          |           | 1                  |                                     | 10                              | 11    |
| Drake University                  |         | 2   |          |                                     |              |            |          |           |                    |                                     | 2                               | 2     |
| Drew Theological Seminary         |         |     |          |                                     |              |            |          |           | 2                  |                                     | 2                               | 6     |
| Dropsie College                   |         | 1   |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Drury College                     |         | 1   |          |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Dubuque College                   |         | 1   |          |                                     |              |            | 1        |           | 2                  |                                     |                                 | 4     |
| Earlham College                   |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 2     |
| East Hampton College              |         |     |          |                                     |              |            |          |           | 3                  |                                     | 1                               | 4     |
| Elmira College                    |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Elon College                      |         | 1   |          |                                     |              |            |          |           | 1                  | 1                                   |                                 | 2     |
| Emory College                     |         | 1   |          |                                     |              |            |          |           | 1                  |                                     | 2                               | 4     |
| Emory and Henry College           |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Emporia College                   |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| Erskine College                   |         |     | 1        |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| Evangelical Theological Seminary  |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Florida State College for Women   |         |     |          |                                     |              |            |          |           | 1                  |                                     | 2                               | 3     |
| Fordham University                | 2       | 2   |          |                                     |              |            |          |           | 1                  |                                     |                                 | 5     |
| Franklin College                  |         |     |          |                                     |              |            |          |           | 1                  |                                     | 3                               | 4     |
| Franklin and Marshall College     |         |     |          |                                     |              |            |          |           | 4                  |                                     | 2                               | 6     |
| Friends University                |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| Garret Biblical Institute         |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| General Theological Seminary      |         |     |          |                                     |              |            |          |           | 2                  |                                     |                                 | 2     |
| Geneva College                    |         | 1   |          |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Georgetown University             |         | 4   | 1        |                                     |              |            |          |           | 1                  |                                     | 1                               | 7     |

TABLE XII—(Continued)

| 1919-1920                        | College | Law | Medicine | Mines, Engineering<br>and Chemistry | Architecture | Journalism | Business | Dentistry | Graduate Faculties | Unclassified<br>University Students | Education and<br>Practical Arts | Total |
|----------------------------------|---------|-----|----------|-------------------------------------|--------------|------------|----------|-----------|--------------------|-------------------------------------|---------------------------------|-------|
| George Washington University     |         | 1   | 1        | 1                                   |              |            |          |           | 4                  |                                     | 2                               | 9     |
| Georgia School of Technology     |         |     |          |                                     |              |            | 1        |           |                    |                                     |                                 | 1     |
| Goucher College                  |         |     |          |                                     |              |            |          |           | 5                  |                                     | 8                               | 31    |
| Grand Island College             |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Grayson College                  |         |     |          |                                     |              |            |          |           | 7                  |                                     | 2                               | 2     |
| Grinnell College                 |         |     |          |                                     |              |            |          |           | 1                  |                                     | 2                               | 9     |
| Grove City College               |         | 2   |          |                                     |              |            |          |           | 1                  |                                     |                                 | 3     |
| Guilford College                 |         |     |          |                                     |              |            |          |           | 7                  | 1                                   | 1                               | 11    |
| Hamilton College                 |         | 2   |          |                                     |              |            |          |           | 7                  |                                     | 2                               | 11    |
| Hampden Sidney College           |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Hanover College                  |         |     |          |                                     |              |            |          |           | 1                  | 1                                   | 1                               | 2     |
| Hartford Theological Seminary    |         |     |          |                                     |              |            | 6        |           | 22                 | 2                                   | 16                              | 78    |
| Harvard University               | 3       | 17  | 7        | 2                                   | 3            |            |          |           |                    |                                     | 1                               | 1     |
| Hastings College                 |         |     |          |                                     |              |            | 1        |           | 2                  |                                     |                                 | 4     |
| Haverford College                |         | 1   |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Hebrew Union College             |         |     |          |                                     |              |            |          |           | 1                  |                                     | 1                               | 1     |
| Hedding College                  |         |     |          |                                     |              |            |          |           | 2                  |                                     |                                 | 3     |
| Heidelberg University (Ohio)     |         | 1   |          |                                     |              |            |          |           | 2                  |                                     | 1                               | 2     |
| Hendrix College                  |         |     | 1        |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Hillsdale College                |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| Hiram College                    |         |     | 2        |                                     |              |            | 2        |           | 3                  |                                     | 4                               | 7     |
| Hobart College                   |         |     |          |                                     |              |            |          |           | 1                  | 1                                   |                                 | 2     |
| Hollins College                  |         |     |          |                                     |              |            |          |           |                    |                                     |                                 | 3     |
| Holy Cross College               |         | 1   | 2        |                                     |              |            |          |           | 3                  |                                     | 1                               | 4     |
| Hope College                     |         |     |          |                                     |              |            |          |           | 2                  |                                     |                                 | 2     |
| H. Sophie Newcomb College        |         | 1   |          |                                     |              |            |          |           | 2                  | 2                                   | 1                               | 4     |
| Howard University                |         |     |          |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Hunter College                   |         |     | 4        |                                     |              | 1          | 1        |           | 71                 | 2                                   | 49                              | 128   |
| Huntington College               |         | 1   |          |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Illinois College                 |         |     |          |                                     |              |            |          |           | 1                  |                                     | 1                               | 2     |
| Illinois Wesleyan College        |         |     |          |                                     |              |            |          |           | 1                  |                                     | 1                               | 2     |
| Indiana State Normal School      |         |     |          |                                     |              |            |          |           | 1                  |                                     | 2                               | 3     |
| Indiana University               |         | 1   | 1        |                                     |              |            |          |           | 5                  | 1                                   | 9                               | 17    |
| Iowa Christian College           |         | 1   |          |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Iowa State College               |         | 1   |          |                                     |              | 1          |          |           |                    |                                     | 3                               | 5     |
| Iowa State Teachers College      |         |     |          |                                     |              |            |          |           | 3                  |                                     | 6                               | 9     |
| Iowa Wesleyan University         |         |     |          |                                     |              |            |          |           |                    |                                     | 2                               | 2     |
| James Millikin University        |         |     |          |                                     |              |            |          |           | 3                  |                                     | 2                               | 5     |
| Jamestown College                |         | 1   |          |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Jefferson Medical College        |         |     | 2        |                                     |              |            |          |           |                    |                                     |                                 | 2     |
| Johns Hopkins University         |         | 1   |          |                                     |              |            |          |           | 2                  | 1                                   | 2                               | 6     |
| Judson College                   |         |     |          |                                     |              |            | 1        |           |                    |                                     |                                 | 1     |
| Juanita College                  |         | 1   |          |                                     |              |            |          |           |                    | 1                                   | 1                               | 3     |
| Kalamazoo College                |         |     |          |                                     |              |            |          |           | 2                  |                                     |                                 | 2     |
| Kansas State Agriculture College |         |     |          |                                     |              |            |          |           |                    |                                     | 4                               | 4     |
| Kansas State Normal College      |         |     |          |                                     |              |            |          |           |                    |                                     | 5                               | 5     |
| Kentucky Wesleyan University     |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| King College                     |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| Knox College                     |         |     |          |                                     |              | 1          |          |           | 3                  | 1                                   | 3                               | 8     |
| Lafayette College                |         | 3   |          |                                     |              |            |          |           | 1                  |                                     | 3                               | 7     |
| La Grange College                |         |     |          |                                     |              |            |          |           |                    | 1                                   |                                 | 1     |
| Lake Erie College                |         |     |          |                                     |              |            |          |           | 1                  |                                     | 1                               | 2     |
| Lawrence College                 |         |     |          |                                     |              |            |          |           |                    |                                     | 3                               | 3     |
| Lebanon Valley College           |         |     |          |                                     |              |            |          |           | 1                  |                                     | 1                               | 2     |
| Lehigh University                |         |     |          |                                     |              |            |          |           | 2                  |                                     |                                 | 2     |
| Leland Stanford University       |         |     |          |                                     |              |            |          |           | 5                  |                                     | 10                              | 15    |
| Lincoln Memorial University      |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |

TABLE XII—(Continued)

| 1919-1920  | College | Law | Medicine | Mines, Engineering<br>and Chemistry | Architecture | Journalism | Business | Dentistry | Graduate Faculties | Unclassified<br>University Students | Education and<br>Practical Arts | Total |
|--|---------|-----|----------|-------------------------------------|--------------|------------|----------|-----------|--------------------|-------------------------------------|---------------------------------|-------|
| Long Island College                                |         |     | 1        |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Louisiana State University                         |         |     |          |                                     |              |            |          |           | 2                  |                                     |                                 | 2     |
| Loyola University                                  |         |     | 1        |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| McCormick Theological Seminary                     |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| McKendree College                                  |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| McNeville College                                  |         |     | 1        |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Macalester College                                 |         |     |          |                                     |              |            |          |           |                    |                                     | 3                               | 3     |
| Manhattan College                                  |         | 2   |          |                                     |              |            |          |           |                    |                                     |                                 | 2     |
| Marietta College                                   |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| Maryland College for Women                         |         |     |          |                                     |              |            |          |           |                    | 1                                   |                                 | 1     |
| Maryville College                                  |         |     |          |                                     |              |            | 1        |           |                    |                                     |                                 | 1     |
| Massachusetts Agricultural College                 |         |     |          |                                     |              |            |          |           | 1                  |                                     | 1                               | 2     |
| Massachusetts Institute of Technology              |         |     |          | 1                                   |              |            |          |           | 6                  |                                     |                                 | 7     |
| Medical Chirurgical College                        |         |     | 1        |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| Mercer University                                  |         |     | 1        |                                     |              |            |          |           | 2                  |                                     | 1                               | 4     |
| Miami University                                   |         | 1   |          |                                     |              |            | 2        |           |                    |                                     | 3                               | 6     |
| Michigan Agricultural College                      |         | 1   |          |                                     |              |            |          |           |                    |                                     | 3                               | 4     |
| Michigan College of Mines                          |         |     |          |                                     |              |            |          | 1         |                    | 1                                   |                                 | 1     |
| Michigan State Normal College                      |         |     |          |                                     |              |            |          |           | 1                  |                                     | 8                               | 10    |
| Middlebury College                                 |         |     |          |                                     |              |            |          |           |                    |                                     | 3                               | 3     |
| Mills College                                      |         |     |          |                                     |              |            |          |           | 1                  |                                     | 2                               | 3     |
| Millaps College                                    |         |     |          |                                     |              |            |          |           |                    |                                     | 2                               | 2     |
| Mississippi Industrial Institute and College       |         |     |          |                                     |              |            |          |           | 2                  | 1                                   |                                 | 3     |
| Mississippi State College for Women                |         |     |          |                                     |              |            |          |           |                    | 1                                   |                                 | 1     |
| Missouri School of Mines                           |         |     |          | 1                                   |              |            |          |           |                    |                                     |                                 | 1     |
| Missouri State Normal School                       |         |     |          |                                     |              |            |          |           | 1                  |                                     | 6                               | 7     |
| Montana State School of Mines                      |         |     |          | 1                                   |              |            |          |           |                    |                                     |                                 | 1     |
| Morgan College                                     |         |     |          |                                     |              |            |          |           |                    | 1                                   | 1                               | 2     |
| Mount Holyoke College                              |         |     | 1        |                                     |              |            |          |           | 10                 |                                     |                                 | 27    |
| Mount St. Mary College                             |         |     |          |                                     |              |            |          |           | 1                  |                                     | 16                              | 17    |
| Mount Union College                                |         |     |          |                                     |              | 1          |          |           |                    |                                     |                                 | 1     |
| Muhlenberg College                                 |         |     |          |                                     |              |            | 1        |           | 2                  |                                     |                                 | 3     |
| Muskingum College                                  |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| National Normal University                         |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| Nebraska State Normal College                      |         |     |          |                                     |              |            |          |           | 1                  |                                     | 2                               | 2     |
| Nebraska Wesleyan University                       |         |     |          |                                     |              |            |          |           | 1                  |                                     | 6                               | 7     |
| New Hampshire State College                        |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| New York College of Dentistry                      |         |     |          |                                     |              |            |          |           |                    | 1                                   |                                 | 1     |
| New York Law School                                | 1       | 1   |          |                                     |              |            |          |           | 1                  |                                     |                                 | 3     |
| New York Medical School                            |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| New York State Normal College                      |         |     |          |                                     |              |            |          |           |                    |                                     | 12                              | 12    |
| New York State Teachers College                    |         |     |          |                                     |              |            |          |           | 2                  |                                     |                                 | 2     |
| New York University                                |         | 9   | 2        |                                     |              |            | 1        |           | 21                 | 4                                   | 29                              | 66    |
| North Carolina State College                       |         |     |          |                                     |              |            |          |           | 1                  |                                     |                                 | 1     |
| North Carolina College for Women                   |         |     |          |                                     |              |            |          |           |                    | 1                                   |                                 | 1     |
| North Carolina State Normal and Industrial College |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| Northeastern Medical School                        |         |     | 1        |                                     |              |            |          |           |                    |                                     |                                 | 1     |
| North Georgia Agricultural College                 |         |     | 2        |                                     |              |            |          |           |                    |                                     |                                 | 2     |
| Northwestern College                               |         |     |          |                                     |              | 1          |          |           | 3                  | 1                                   |                                 | 7     |
| Northwestern University                            |         |     |          | 1                                   |              |            |          |           | 5                  |                                     | 16                              | 22    |
| Notre Dame University                              |         | 2   |          | 1                                   |              |            | 1        |           |                    |                                     |                                 | 4     |
| New Mexico Normal College                          |         |     |          |                                     |              |            |          |           |                    |                                     | 1                               | 1     |
| Oberlin College                                    |         | 2   | 2        | 1                                   |              |            |          |           | 13                 | 1                                   | 6                               | 25    |



TABLE XII—(Continued)

| 1919-1920                                    | College  | Law      | Medicine  | Mines, Engineering<br>and Chemistry | Architecture | Journalism | Business | Dentistry | Graduate Faculties | Unclassified<br>University Students | Education and<br>Practical Arts | Total      |
|--|----------|----------|-----------|-------------------------------------|--------------|------------|----------|-----------|--------------------|-------------------------------------|---------------------------------|------------|
| University of Nanking (China)                |          |          |           |                                     |              |            |          |           | 1                  | 1                                   | 3                               | 5          |
| University of New Brunswick<br>(Canada)      |          |          |           |                                     |              |            |          |           |                    |                                     | 1                               | 1          |
| University of Oxford (England)               |          | 1        |           |                                     |              |            |          |           | 3                  |                                     |                                 | 4          |
| University of Paris (France)                 |          | 1        |           | 2                                   |              |            |          |           | 1                  | 1                                   |                                 | 5          |
| University of Petrograd (Russia)             |          |          |           |                                     | 1            |            |          |           |                    |                                     |                                 | 1          |
| University of St. Andrew's<br>(Scotland)     |          |          |           |                                     |              |            |          |           |                    |                                     | 2                               | 2          |
| University of Saskatchewan<br>(Canada)       |          |          |           |                                     |              |            |          |           | 2                  |                                     |                                 | 2          |
| University of Sorbonne (France)              |          |          |           |                                     |              |            |          |           | 2                  |                                     |                                 | 2          |
| University of South Africa                   |          |          |           |                                     |              |            |          |           |                    |                                     | 5                               | 5          |
| University of Stellenbosch<br>(South Africa) |          |          |           |                                     |              |            |          |           |                    |                                     | 3                               | 3          |
| University of Sydney (Australia)             |          |          |           |                                     |              |            |          |           | 3                  |                                     | 1                               | 4          |
| University of Toronto (Canada)               |          |          |           |                                     |              |            |          |           | 7                  | 1                                   | 6                               | 14         |
| University of Vienna (Austria)               |          |          |           |                                     |              |            |          |           | 1                  |                                     |                                 | 1          |
| University of Zurich (Switzerland)           |          |          |           |                                     |              |            |          |           |                    |                                     | 1                               | 1          |
| Waseda University (Japan)                    |          |          |           |                                     |              |            | 1        |           | 2                  | 8                                   |                                 | 11         |
| Western University (Canada)                  |          |          |           |                                     |              |            |          |           | 1                  |                                     |                                 | 1          |
| Zappion College (Turkey)                     |          |          |           |                                     |              |            |          |           | 1                  |                                     |                                 | 1          |
| <b>Total (Foreign Institutions)</b>          | <b>2</b> | <b>9</b> | <b>14</b> | <b>3</b>                            | <b>2</b>     | <b>6</b>   |          |           | <b>67</b>          | <b>25</b>                           | <b>43</b>                       | <b>171</b> |

TABLE XII—(Continued)

## SUMMARY

| 1919-1920   | College | Law   | Medicine | Mines, Engineering<br>and Chemistry | Architecture | Journalism | Business | Dentistry | Graduate Faculties | Unclassified<br>University Students | Education and<br>Practical Arts | Total |
|---|---------|-------|----------|-------------------------------------|--------------|------------|----------|-----------|--------------------|-------------------------------------|---------------------------------|-------|
| Total graduates of domestic institutions          | 17      | 381   | 294      | 117                                 | 26           | 46         | 81       | 2         | 1,430              | 85                                  | 1,263                           | 3,742 |
| Total graduates of foreign institutions           | 2       | 9     | 14       | 3                                   | 2            |            | 6        |           | 67                 | 25                                  | 43                              | 171   |
| Grand total graduates of higher institutions      | 19      | 390   | 308      | 120                                 | 28           | 46         | 87       | 2         | 1,497              | 110                                 | 1,306                           | 3,913 |
| Deduct for graduates of more than one institution | 1       | 12    | 22       | 2                                   | 1            |            | 12       |           | 267                | 13                                  | 158                             | 488   |
| Total students holding degrees                    | 18      | 378   | 286      | 118                                 | 27           | 46         | 75       | 2         | 1,230              | 97                                  | 1,148                           | 3,425 |
| Total students enrolled                           | 1,901   | 451   | 446      | 136                                 | 63           | 123        | 269      | 4         | 1,249              | 166                                 | 3,118                           | 7,926 |
| Percentage holding degrees, 1920                  | 0.94    | 83.81 | 64.1     | 86.76                               | 42.86        | 37.39      | 27.88    | 50        | 98.47              | 58.43                               | 36.82                           | 43.21 |
| Percentage holding degrees, 1919                  | 0.53    | 91.4  | 59.4     | 76.1                                | 43.9         | 21.54      | 23.0     |           | 95.1               |                                     | 29.61                           | 36.64 |

TABLE XII—(Continued)

| 1919-1920                                    | College  | Law      | Medicine  | Mines, Engineering<br>and Chemistry | Architecture | Journalism | Business | Dentistry | Graduate Faculties | Unclassified<br>University Students | Education and<br>Practical Arts | Total      |
|--|----------|----------|-----------|-------------------------------------|--------------|------------|----------|-----------|--------------------|-------------------------------------|---------------------------------|------------|
| University of Nanking (China)                |          |          |           |                                     |              |            |          |           | 1                  | 1                                   | 3                               | 5          |
| University of New Brunswick<br>(Canada)      |          |          |           |                                     |              |            |          |           |                    |                                     | 1                               | 1          |
| University of Oxford (England)               |          | 1        |           |                                     |              |            |          |           | 3                  |                                     |                                 | 4          |
| University of Paris (France)                 |          | 1        |           | 2                                   |              |            |          |           | 1                  | 1                                   |                                 | 5          |
| University of Petrograd (Russia)             |          |          |           |                                     | 1            |            |          |           |                    |                                     |                                 | 1          |
| University of St. Andrew's<br>(Scotland)     |          |          |           |                                     |              |            |          |           |                    |                                     | 2                               | 2          |
| University of Saskatchewan<br>(Canada)       |          |          |           |                                     |              |            |          |           | 2                  |                                     |                                 | 2          |
| University of Sorbonne (France)              |          |          |           |                                     |              |            |          |           | 2                  |                                     |                                 | 2          |
| University of South Africa                   |          |          |           |                                     |              |            |          |           |                    |                                     | 5                               | 5          |
| University of Stellenbosch<br>(South Africa) |          |          |           |                                     |              |            |          |           |                    |                                     | 3                               | 3          |
| University of Sydney (Australia)             |          |          |           |                                     |              |            |          |           | 3                  |                                     | 1                               | 4          |
| University of Toronto (Canada)               |          |          |           |                                     |              |            |          |           | 7                  | 1                                   | 6                               | 14         |
| University of Vienna (Austria)               |          |          |           |                                     |              |            |          |           | 1                  |                                     |                                 | 1          |
| University of Zurich (Switzerland)           |          |          |           |                                     |              |            |          |           | 1                  |                                     | 1                               | 1          |
| Waseda University (Japan)                    |          |          |           |                                     |              | 1          |          |           | 2                  | 8                                   |                                 | 11         |
| Western University (Canada)                  |          |          |           |                                     |              |            |          |           | 1                  |                                     |                                 | 1          |
| Zappion College (Turkey)                     |          |          |           |                                     |              |            |          |           | 1                  |                                     |                                 | 1          |
| <b>Total (Foreign Institutions)</b>          | <b>2</b> | <b>9</b> | <b>14</b> | <b>3</b>                            | <b>2</b>     | <b>6</b>   |          |           | <b>67</b>          | <b>25</b>                           | <b>43</b>                       | <b>171</b> |

TABLE XII—(Continued)

## SUMMARY

| 1919-1920   | College | Law   | Medicine | Mines, Engineering<br>and Chemistry | Architecture | Journalism | Business | Dentistry | Graduate Faculties | Unclassified<br>University Students | Education and<br>Practical Arts | Total |
|---|---------|-------|----------|-------------------------------------|--------------|------------|----------|-----------|--------------------|-------------------------------------|---------------------------------|-------|
| Total graduates of domestic institutions          | 17      | 381   | 294      | 117                                 | 26           | 46         | 81       | 2         | 1,430              | 85                                  | 1,263                           | 3,742 |
| Total graduates of foreign institutions           | 2       | 9     | 14       | 3                                   | 2            |            | 6        |           | 67                 | 25                                  | 43                              | 171   |
| Grand total graduates of higher institutions      | 19      | 390   | 308      | 120                                 | 28           | 46         | 87       | 2         | 1,497              | 110                                 | 1,306                           | 3,913 |
| Deduct for graduates of more than one institution | 1       | 12    | 22       | 2                                   | 1            |            | 12       |           | 267                | 13                                  | 158                             | 488   |
| Total students holding degrees                    | 18      | 378   | 286      | 118                                 | 27           | 46         | 75       | 2         | 1,230              | 97                                  | 1,148                           | 3,425 |
| Total students enrolled                           | 1,901   | 451   | 446      | 136                                 | 63           | 123        | 269      | 4         | 1,249              | 166                                 | 3,118                           | 7,926 |
| Percentage holding degrees, 1920                  | 0.94    | 83.81 | 64.1     | 86.76                               | 42.86        | 37.39      | 27.88    | 50        | 98.47              | 58.43                               | 36.82                           | 43.21 |
| Percentage holding degrees, 1919                  | 0.53    | 91.4  | 59.4     | 76.1                                | 43.9         | 21.54      | 23.0     |           | 95.1               |                                     | 29.61                           | 36.64 |

TABLE XIII

## TITLE OF DEGREES HELD BY STUDENTS

| Degrees Held 1919-1920                  | College | Law | Medicine | Mines, Engineering<br>and Chemistry | Architecture | Journalism | Business | Dentistry | Graduate<br>Faculties | Unclassified<br>University Students | Education and<br>Practical Arts | Total |
|---|---------|-----|----------|-------------------------------------|--------------|------------|----------|-----------|-----------------------|-------------------------------------|---------------------------------|-------|
| Bachelor of Agriculture                 |         |     |          |                                     | 1            |            |          |           | 1                     | 1                                   |                                 | 2     |
| Bachelor of Architecture                |         |     |          | 36                                  | 17           | 37         | 49       | 1         | 899                   | 59                                  | 683                             | 2,235 |
| Bachelor of Arts                        | 9       | 301 | 144      |                                     |              |            |          |           |                       |                                     |                                 |       |
| Bachelor of Chemical<br>Engineering     |         |     |          |                                     |              |            | 1        |           | 1                     |                                     |                                 | 1     |
| Bachelor of Commerce                    |         |     |          |                                     |              |            |          |           |                       | 3                                   |                                 | 4     |
| Bachelor of Commercial<br>Science       |         |     |          |                                     |              |            |          |           | 1                     | 1                                   | 1                               | 3     |
| Bachelor of Divinity                    |         | 1   |          |                                     |              |            |          |           | 24                    | 1                                   | 16                              | 42    |
| Bachelor of Laws                        | 1       | 18  |          |                                     | 1            |            | 3        |           | 12                    | 2                                   | 3                               | 40    |
| Bachelor of Letters                     |         | 15  |          |                                     | 1            |            |          |           | 15                    |                                     |                                 | 33    |
| Bachelor of Literature                  |         |     |          |                                     |              | 1          | 2        |           | 6                     |                                     | 10                              | 19    |
| Bachelor of Medicine                    |         |     | 1        |                                     |              |            |          |           | 1                     |                                     |                                 | 1     |
| Bachelor of Music                       |         |     |          |                                     |              |            |          | 1         |                       |                                     |                                 | 1     |
| Bachelor of Pedagogy                    |         | 1   |          |                                     |              |            | 1        |           | 2                     |                                     | 28                              | 32    |
| Bachelor of Philosophy                  |         | 13  | 3        | 5                                   |              | 1          |          |           | 33                    | 4                                   | 52                              | 111   |
| Bachelor of Political<br>Science        |         |     |          |                                     |              |            |          |           | 1                     |                                     |                                 | 1     |
| Bachelor of Sacred<br>Theology          |         |     |          |                                     |              |            |          |           | 2                     |                                     |                                 | 2     |
| Bachelor of Science                     | 8       | 35  | 122      | 65                                  | 5            | 7          | 20       | 1         | 236                   | 17                                  | 371                             | 887   |
| Bachelor of Theology                    |         |     |          |                                     |              |            |          |           |                       |                                     | 2                               | 2     |
| Bachelor of Engineering                 |         |     |          |                                     |              |            |          |           | 1                     |                                     | 1                               | 2     |
| Bachelor of Chemistry                   |         |     |          |                                     |              |            |          |           | 2                     |                                     |                                 | 2     |
| Chemical Engineer                       |         |     |          |                                     |              |            |          |           | 8                     |                                     |                                 | 8     |
| Civil Engineer                          |         | 1   | 1        | 2                                   | 1            |            |          |           | 1                     |                                     | 1                               | 7     |
| Bachelor of Science in<br>Commerce      |         |     |          |                                     |              |            |          |           | 1                     |                                     |                                 | 1     |
| Doctor of Jurisprudence                 |         |     |          |                                     |              |            |          |           | 1                     |                                     |                                 | 1     |
| Doctor of Laws                          |         | 2   |          |                                     |              |            |          |           |                       |                                     |                                 | 2     |
| Doctor of Medicine                      |         |     | 23       |                                     |              |            |          |           | 7                     | 5                                   | 1                               | 36    |
| Doctor of Pedagogy                      |         |     |          |                                     |              |            |          |           |                       | 1                                   | 5                               | 6     |
| Doctor of Pharmacy                      |         |     |          |                                     |              |            |          |           |                       |                                     |                                 |       |
| Doctor of Philosophy                    |         | 1   |          |                                     |              |            |          |           | 8                     | 11                                  | 12                              | 32    |
| Doctor of Veterinary<br>Surgery         |         |     |          |                                     | 1            |            |          |           |                       |                                     |                                 | 1     |
| Doctor of Dental Surgery                |         |     |          |                                     |              |            |          |           |                       | 1                                   |                                 | 1     |
| Master of Engineering                   |         |     |          |                                     |              |            |          |           |                       | 1                                   |                                 | 1     |
| Electrical Engineer                     |         |     |          |                                     |              |            |          |           |                       |                                     | 2                               | 2     |
| Engineer of Mines                       |         |     |          | 3                                   |              |            |          |           | 2                     | 1                                   | 2                               | 8     |
| Licence ès Lettres                      |         |     |          |                                     |              |            |          |           | 1                     |                                     |                                 | 1     |
| Graduate in Pharmacy                    |         |     | 2        |                                     |              |            |          |           |                       |                                     |                                 | 2     |
| Graduate United States<br>Naval Academy |         |     |          |                                     | 8            |            |          |           |                       |                                     |                                 | 8     |
| Master of Mechanical<br>Engineering     |         |     |          |                                     |              |            |          |           | 1                     |                                     |                                 | 1     |
| Master of Arts                          |         | 16  | 10       |                                     | 2            |            | 11       |           | 330                   | 19                                  | 205                             | 593   |
| Master of Didactics                     |         |     |          |                                     |              |            |          |           |                       |                                     | 2                               | 2     |
| Master of Laws                          |         |     |          |                                     |              |            |          |           | 2                     |                                     |                                 | 2     |
| Master of Pedagogy                      |         |     |          |                                     |              |            |          |           |                       | 1                                   | 9                               | 10    |
| Master of Philosophy                    |         |     |          |                                     |              |            |          |           |                       |                                     |                                 | 3     |
| Master of Science                       | 1       |     |          |                                     |              |            |          |           | 20                    | 1                                   | 9                               | 31    |
| Mechanical Engineer                     |         |     | 1        | 3                                   |              |            |          |           | 2                     |                                     |                                 | 6     |
| Metallurgical Engineer                  |         |     |          |                                     |              |            |          |           | 2                     |                                     |                                 | 2     |

TABLE XIII—(Continued)

| Degrees Held 1919-1920                                   | College | Law | Medicine | Mines, Engineering<br>and Chemistry | Architecture | Journalism | Business | Dentistry | Graduate<br>Faculties | Unclassified<br>University Students | Education and<br>Practical Arts | Total |
|--|---------|-----|----------|-------------------------------------|--------------|------------|----------|-----------|-----------------------|-------------------------------------|---------------------------------|-------|
| Pharmaceutical Chemist                                   |         |     | 1        |                                     |              |            |          |           |                       |                                     |                                 | 1     |
| Philosopher in Arts                                      |         | 1   |          |                                     |              |            |          |           |                       |                                     |                                 | 1     |
| Total degrees held                                       | 19      | 405 | 308      | 122                                 | 29           | 46         | 87       | 2         | 1,625                 | 130                                 | 1,418                           | 4,191 |
| Deduct for students hold-<br>ing more than one<br>degree | 1       | 27  | 22       | 4                                   | 2            |            | 12       |           | 394                   | 34                                  | 270                             | 766   |
| Total students holding<br>degrees, 1920                  | 18      | 378 | 86       | 118                                 | 27           | 46         | 75       | 2         | 1,231                 | 96                                  | 1,148                           | 3,425 |
| Total students holding<br>degrees, 1919                  | 8       | 213 | 288      | 70                                  | 18           | 14         | 29       |           | 736                   | 68                                  | 700                             | 2,144 |

**TABLE XIV**  
**DEGREES AND DIPLOMAS GRANTED, 1919-1920**

|   | Men          | Women        | Total        |
|---|--------------|--------------|--------------|
| <b>A. Degrees conferred in course</b>                                 |              |              |              |
| Bachelor of Arts  | 237          | 139          | 376          |
| Bachelor of Laws  | 98           |              | 98           |
| Bachelor of Science   | 28           | 5            | 33           |
| Bachelor of Science (Business)  | 35           | 10           | 45           |
| Bachelor of Science (Practical Arts)                                  | 33           | 366          | 399          |
| Bachelor of Science (Medicine)  | 34           |              | 34           |
| Bachelor of Science (Pharmacy)  | 1            | 1            | 2            |
| Bachelor of Architecture  | 4            | 2            | 6            |
| Bachelor of Literature  | 18           | 17           | 35           |
| Chemical Engineer   | 17           |              | 17           |
| Civil Engineer  | 8            |              | 8            |
| Electrical Engineer   | 4            |              | 4            |
| Engineer of Mines   | 3            |              | 3            |
| Doctor of Medicine  | 101          |              | 101          |
| Pharmaceutical Chemist  | 14           | 1            | 15           |
| Master of Arts  | 204          | 199          | 403          |
| Master of Arts (Education)  | 147          | 276          | 423          |
| Master of Laws  | 1            |              | 1            |
| Master of Science (Applied Science)                                   | 4            |              | 4            |
| Master of Science (Architecture)                                      | 1            |              | 1            |
| Master of Science (Business)  | 15           |              | 15           |
| Master of Science (Practical Arts)                                    |              | 6            | 6            |
| Mechanical Engineer   | 7            |              | 7            |
| Metallurgical Engineer  | 3            |              | 3            |
| Doctor of Philosophy  | 51           | 18           | 69           |
| <i>Total</i>  | <i>1,068</i> | <i>1,040</i> | <i>2,108</i> |
| Deduct duplicates <sup>1</sup>  | 7            | 4            | 11           |
| <i>Total individuals receiving degrees in course</i>                  | <i>1,061</i> | <i>1,036</i> | <i>2,097</i> |
| <b>B. Honorary Degrees</b>  |              |              |              |
| Doctor of Laws  | 7            |              | 7            |
| <i>Total</i>  | <i>7</i>     |              | <i>7</i>     |
| <b>C. Certificates and Teachers College Diplomas Granted</b>          |              |              |              |
| Certificate of Proficiency in Architecture                            | 6            |              | 6            |
| Certificate of Proficiency in Architecture (Extension)                | 1            |              | 1            |
| Bachelor of Arts Certificate for Academic Record and National Service | 17           |              | 17           |
| Secretarial Certificate in Business                                   |              | 12           | 12           |
| Certificate in Optometry  | 19           |              | 19           |
| Bachelor's Diploma in Education                                       | 22           | 214          | 236          |
| Master's Diploma in Education   | 87           | 153          | 240          |
| Doctor's Diploma in Education   | 10           | 2            | 12           |
| <i>Total</i>  | <i>162</i>   | <i>381</i>   | <i>543</i>   |
| <i>Total degrees and diplomas granted</i>                             | <i>1,237</i> | <i>1,421</i> | <i>2,658</i> |
| Deduct duplicates <sup>2</sup>  | 123          | 354          | 477          |
| <i>Total individuals receiving degrees and diplomas</i>               | <i>1,114</i> | <i>1,067</i> | <i>2,181</i> |

<sup>1</sup> Distributed as follows: A.B. and B.S. (Business), 1 man; A.B. and A.M., 1 man; B.S. and A.M., 4 women; A.M. and LL.B., 5 men.

<sup>2</sup> In addition to those noted under Note 1 (11) the following duplications occur: (466) A.B. and Teachers College Diploma, 3 men; B.S. and Teachers College Diploma, 19 men, 206 women; A.M. and Teachers College Diploma, 84 men, 142 women; Ph.D. and Teachers College Diploma, 10 men, 2 women.

TABLE XV

NUMBER OF DEGREES AND DIPLOMAS GRANTED, 1909-1910 TO 1919-1920

|  | 1909-1910 | 1910-1911 | 1911-1912 | 1912-1913 | 1913-1914 | 1914-1915 | 1915-1916 | 1916-1917 | 1917-1918 | 1918-1919 | 1919-1920 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>A. Degrees conferred in course</b>  |           |           |           |           |           |           |           |           |           |           |           |
| Bachelor of Arts (men)                 | 93        | 94        | 94        | 127       | 99        | 105       | 101       | 125       | 136       | 104       | 237       |
| Bachelor of Arts (women)               | 86        | 105       | 114       | 136       | 113       | 141       | 112       | 136       | 142       | 137       | 139       |
| Bachelor of Laws (Columbia College)    | 80        | 94        | 110       | 137       | 140       | 135       | 134       | 165       | 54        | 44        | 98        |
| Bachelor of Science (Barnard College)  | 28        | 48        | 58        | 61        | 77        | 85        | 75        | 110       | 76        | 49        | 28        |
| Bachelor of Science (Teachers College) | 2         |           | 4         | 3         | 7         | 8         | 6         | 20        | 15        | 4         | 5         |
| Bachelor of Science in Practical Arts  | 158       | 214       | 255       | 235       | 218       | 357       | 337       | 326       | 345       | 330       | 399       |
| Bachelor of Science (Architecture)     |           |           |           |           | 5         | 19        |           |           |           |           |           |
| Bachelor of Science (Business)         | 2         | 1         | 1         |           | 1         |           |           | 2         | 4         | 13        | 45        |
| Bachelor of Science (Chemistry)        | 1         |           |           |           |           |           |           |           |           |           |           |
| Bachelor of Science (Pharmacy)         |           |           |           |           |           |           |           | 2         |           |           | 2         |
| Bachelor of Science (Medicine)         |           |           |           |           |           |           |           |           |           | 31        | 34        |
| Bachelor of Architecture               | 6         | 7         | 7         | 3         | 17        | 10        | 7         | 19        | 1         | 5         | 6         |
| Bachelor of Music                      | 2         | 2         | 1         | 1         | 15        | 22        | 24        | 26        | 19        | 20        | 35        |
| Bachelor of Literature                 |           |           |           | 9         | 15        | 22        | 24        | 26        | 19        | 20        | 35        |
| Chemist                                | 2         | 2         | 2         | 2         | 3         | 4         |           | 1         |           |           |           |
| Chemical Engineer                      | 6         | 6         | 11        | 20        | 18        | 20        | 18        | 36        | 3         | 7         | 17        |
| Civil Engineer                         | 31        | 28        | 26        | 37        | 27        | 37        | 33        | 33        | 8         | 4         | 8         |
| Electrical Engineer                    | 27        | 10        | 7         | 15        | 8         | 15        | 17        | 25        | 3         | 1         | 4         |
| Engineer of Mines                      | 39        | 46        | 38        | 25        | 38        | 20        | 11        | 22        | 9         | 2         | 3         |
| Mechanical Engineer                    | 12        | 15        | 30        | 21        | 14        | 27        | 19        | 24        |           |           | 7         |
| Metallurgical Engineer                 | 3         | 6         | 3         | 5         | 8         | 6         | 5         | 3         | 1         |           | 3         |
| Doctor of Medicine                     | 70        | 70        | 86        | 100       | 71        | 85        | 73        | 90        | 118       | 138       | 101       |
| Pharmaceutical Chemist                 | 8         | 11        | 15        | 20        | 24        | 8         | 12        | 15        | 6         | 8         | 15        |
| Doctor of Pharmacy                     | 4         | 3         | 2         | 7         | 7         | 2         | 1         |           |           |           |           |
| Master of Arts                         | 269       | 315       | 370       | 503       | 492       | 633       | 407       | 389       | 281       | 241       | 403       |
| Master of Laws                         |           |           | 1         | 1         | 3         | 1         | 2         | 3         | 3         | 3         | 1         |
| Master of Arts (Teachers College)      |           |           |           |           |           |           | 226       | 305       | 306       | 257       | 423       |
| Master of Science (Applied Science)    |           |           |           |           |           |           | 29        | 25        | 1         |           | 4         |
| Master of Science (Architecture)       |           |           |           |           |           |           |           |           |           |           |           |
| Master of Science (Business)           |           |           |           |           |           |           |           | 2         |           |           | 1         |
| Master of Science (Practical Arts)     |           |           |           |           |           |           |           | 4         | 7         | 7         | 15        |
| Doctor of Philosophy                   | 44        | 76        | 81        | 67        | 65        | 71        | 88        | 82        | 4         | 9         | 6         |
| Total                                  | 973       | 1,153     | 1,322     | 1,535     | 1,470     | 1,814     | 1,737     | 1,992     | 1,625     | 1,466     | 2,108     |
| Deduct duplicates                      | 6         | 11        | 14        | 20        | 18        | 13        | 21        | 8         | 3         | 4         | 11        |
| Total individuals receiving degrees    | 967       | 1,142     | 1,308     | 1,515     | 1,452     | 1,801     | 1,716     | 1,984     | 1,622     | 1,462     | 2,097     |
| <b>B. Honorary degrees</b>             |           |           |           |           |           |           |           |           |           |           |           |
| Master of Arts                         | 2         | 1         |           | 2         | 3         | 2         | 2         | 2         | 3         | 3         |           |
| Master of Science                      | 1         | 2         | 1         |           | 12        |           |           |           |           |           |           |
| Doctor of Science                      | 3         | 1         | 1         | 2         | 1         | 2         |           | 3         | 1         |           |           |
| Doctor of Letters                      | 4         | 2         | 4         | 2         | 1         | 1         | 1         | 1         | 1         | 2         |           |
| Doctor of Sacred Theology              | 1         | 2         | 1         | 1         | 1         |           | 1         | 1         |           | 1         |           |
| Doctor of Laws                         | 2         | 4         | 3         | 3         | 5         | 5         | 2         | 8         | 5         | 2         | 7         |
| Doctor of Music                        |           |           |           |           | 1         |           |           |           |           |           |           |
| Total                                  | 13        | 12        | 10        | 10        | 24        | 10        | 6         | 15        | 10        | 8         | 7         |



TABLE XV—(Continued)

|   | 1900<br>1910 | 1910<br>1911 | 1911<br>1912 | 1912<br>1913 | 1913<br>1914 | 1914<br>1915 | 1915<br>1916 | 1916<br>1917 | 1917<br>1918 | 1918<br>1919 | 1919<br>1920 |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| C. Certificates and Teachers College diplomas granted                 |              |              |              |              |              |              |              |              |              |              |              |
| Certificates in Architecture  | 3            | 2            | 4            | 6            | 13           | 8            | 12           | 8            | 1            | 5            | 7            |
| Consular Certificate  |              |              |              |              |              | 2            |              |              |              |              |              |
| Bachelor of Arts Certificate for Academic Record and National Service |              |              |              |              |              |              |              |              | 58           | 69           | 17           |
| Secretarial Certificate in Business                                   |              |              |              |              |              |              |              |              | 2            | 7            | 12           |
| Certificate in Optometry  |              |              |              |              |              |              |              |              |              | 7            | 19           |
| Bachelor's diploma in Education                                       | 158          | 220          | 273          | 277          | 253          | 323          | 268          | 238          | 226          | 199          | 236          |
| Special diploma in Education  | 103          | 153          | 205          | 169          | 21           |              |              |              |              |              |              |
| Master's diploma in Education   | 65           | 82           | 83           | 148          | 174          | 226          | 199          | 199          | 187          | 162          | 240          |
| Doctor's diploma in Education   | 8            | 15           | 11           | 10           | 13           | 5            | 5            | 4            | 7            | 3            | 12           |
| <i>Total</i>  | 337          | 472          | 576          | 610          | 474          | 564          | 484          | 449          | 481          | 452          | 543          |
| <i>Total degrees and diplomas granted</i>                             | 1,323        | 1,637        | 1,908        | 2,155        | 1,968        | 2,388        | 2,227        | 2,456        | 2,116        | 1,926        | 2,638        |
| Deduct duplicates   | 230          | 303          | 400          | 495          | 436          | 563          | 410          | 447          | 402          | 342          | 477          |
| <i>Total individuals receiving degrees and diplomas</i>               | 1,093        | 1,334        | 1,508        | 1,660        | 1,532        | 1,825        | 1,817        | 2,009        | 1,714        | 1,584        | 2,161        |

TABLE XVI

## A. MAJOR INTEREST OF RECIPIENTS OF HIGHER DEGREES, 1919-1920

| SUBJECTS OF<br>MAJOR INTEREST           | A.M.       |            | Ph.D.     |           | M.S.      |          | LL.M.    |       | Total      |            |
|---|------------|------------|-----------|-----------|-----------|----------|----------|-------|------------|------------|
|   | Men        | Women      | Men       | Women     | Men       | Women    | Men      | Women | Men        | Women      |
| Anthropology                            |            | 2          | 1         |           |           |          |          |       | 1          | 2          |
| Architecture                            |            |            |           |           | 1         |          |          |       | 1          |            |
| Bacteriology                            | 1          | 6          |           |           |           |          |          |       | 1          | 6          |
| Biological Chemistry                    | 2          |            | 1         |           |           |          |          |       | 2          | 1          |
| Botany                                  | 1          | 4          | 3         |           |           |          |          |       | 4          | 4          |
| Business                                |            |            |           |           | 15        |          |          |       | 15         |            |
| Chemical Engineering                    | 7          |            | 2         |           |           |          |          |       | 9          |            |
| Chemistry                               | 24         | 16         | 4         | 3         |           |          |          |       | 28         | 19         |
| Education and<br>Practical Arts         | 147        | 276        | 19        | 4         | 3         | 6        |          |       | 166        | 286        |
| Electrical Engineering                  |            |            |           |           |           |          |          |       | 3          |            |
| English and Compara-<br>tive Literature | 20         | 64         | 2         | 2         |           |          |          |       | 22         | 66         |
| Geology                                 | 3          |            |           |           |           |          |          |       | 3          |            |
| Germanic Languages                      | 1          | 7          |           |           |           |          |          |       | 1          | 7          |
| History                                 | 33         | 33         | 4         |           |           |          |          |       | 37         | 33         |
| International Law                       | 2          |            |           |           |           |          |          |       | 2          |            |
| Latin                                   | 3          | 7          |           |           |           |          |          |       | 3          | 7          |
| Linguistics                             |            | 1          |           |           |           |          |          |       |            | 1          |
| Mathematics                             | 6          | 6          | 1         |           |           |          |          |       | 7          | 6          |
| Mechanical Engineer-<br>ing             |            |            |           |           | 1         |          |          |       | 1          |            |
| Metallurgy                              | 2          |            |           |           |           |          |          |       | 2          |            |
| Mining Engineering                      | 1          |            |           |           |           |          |          |       | 1          |            |
| Music                                   | 1          | 3          |           |           |           |          |          |       | 1          | 3          |
| Pathology                               | 1          |            |           |           |           |          |          |       | 1          |            |
| Philosophy                              | 7          | 1          | 2         |           |           |          |          |       | 9          | 1          |
| Physics                                 | 1          | 3          |           |           |           |          |          |       | 1          | 3          |
| Physiology                              | 1          | 2          |           | 1         |           |          |          |       | 1          | 3          |
| Political Economy                       | 33         | 9          | 2         | 1         |           |          |          |       | 35         | 10         |
| Politics                                |            |            | 1         |           |           |          |          |       | 1          |            |
| Psychology                              | 10         | 7          | 1         | 3         |           |          |          |       | 11         | 10         |
| Public Law and<br>Jurisprudence         | 19         | 1          | 5         |           |           |          | 1        |       | 25         | 1          |
| Romance Languages                       | 5          | 10         | 1         |           |           |          |          |       | 6          | 10         |
| Slavonic Languages                      | 1          | 1          |           |           |           |          |          |       | 1          | 1          |
| Social Science                          | 10         | 18         | 1         | 1         |           |          |          |       | 11         | 19         |
| Zoology                                 | 4          | 3          | 2         | 2         |           |          |          |       | 6          | 5          |
| <i>Total</i>                            | <i>346</i> | <i>480</i> | <i>51</i> | <i>18</i> | <i>20</i> | <i>6</i> | <i>1</i> |       | <i>418</i> | <i>504</i> |

TABLE XVI—(Continued)

## B. HIGHER DEGREES GRANTED UNDER EACH FACULTY

| FACULTIES                                    | A.M. |       | Ph.D. |       | M.S. |       | LL.M. |       | Total |       |
|--|------|-------|-------|-------|------|-------|-------|-------|-------|-------|
|  | Men  | Women | Men   | Women | Men  | Women | Men   | Women | Men   | Women |
| Graduate Faculties                           | 199  | 204   | 51    | 18    |      |       |       |       | 250   | 222   |
| Applied Science                              |      |       |       |       | 4    |       |       |       | 4     |       |
| Architecture                                 |      |       |       |       | 1    |       |       |       | 1     |       |
| Business                                     |      |       |       |       | 15   |       |       |       | 15    |       |
| Law  |      |       |       |       |      |       | 1     |       | 1     |       |
| <i>Total 1920</i>                            | 199  | 204   | 51    | 18    | 20   |       | 1     |       | 271   | 222   |
| Education and Practical Arts                 | 147  | 276   |       |       |      | 6     |       |       | 147   | 282   |
| <i>Total 1920 including Teachers College</i> | 346  | 480   | 51    | 18    | 20   | 6     | 1     |       | 418   | 504   |
| <i>Total 1919</i>                            | 198  | 300   | 40    | 12    | 7    | 9     | 3     |       | 248   | 321   |
| <i>Total 1918</i>                            | 260  | 325   | 73    | 10    | 7    | 5     | 3     |       | 343   | 340   |

TABLE XVII

## TABLE OF AGES

## AGES OF ENTERING FRESHMEN, COLUMBIA COLLEGE, 1919-1920

| Age   | Number | Age   | Number | Age   | Number | Age   | Number |
|-------|--------|-------|--------|-------|--------|-------|--------|
| 14-15 | 1      | 19-20 | 92     | 24-25 | 17     | 32-33 | 1      |
| 15-16 | 16     | 20-21 | 52     | 25-26 | 7      | 33-34 | 2      |
| 16-17 | 61     | 21-22 | 35     | 26-27 | 6      |       |        |
| 17-18 | 147    | 22-23 | 35     | 30-31 | 2      |       |        |
| 18-19 | 162    | 23-24 | 25     | 31-32 | 1      |       |        |

## AGES OF SENIORS, COLUMBIA COLLEGE, 1919-1920

| Age   | Number | Age   | Number | Age   | Number | Age   | Number |
|-------|--------|-------|--------|-------|--------|-------|--------|
| 16-17 | 1      | 20-21 | 72     | 25-26 | 7      | 31-32 | 1      |
| 17-18 | 2      | 21-22 | 68     | 26-27 | 4      | 32-33 | 1      |
| 18-19 | 20     | 22-23 | 53     | 27-28 | 3      | 35-36 | 1      |
| 19-20 | 54     | 23-24 | 28     | 28-29 | 3      | 38-40 | 1      |
|       |        | 24-25 | 13     | 29-30 | 4      |       |        |

COMPARATIVE TABLE OF AGES OF ENTERING FRESHMEN,  
COLUMBIA COLLEGE, FOR THE PERIODS INDICATED

| Period      | 1919-1920          | 1918-1919          | 1909-1910           |
|-------------|--------------------|--------------------|---------------------|
| Average age | 19 years, 6 months | 18 years, 6 months | 19 years, 2 months  |
| Median age  | 18 years, 9 months | 18 years, 2 months | 18 years, 11 months |

COMPARATIVE TABLE OF AGES OF SENIORS OF COLUMBIA COLLEGE  
FOR THE PERIODS INDICATED

| Period      | 1919-1920          | 1918-1919          | 1909-1910          |
|-------------|--------------------|--------------------|--------------------|
| Average age | 21 years, 7 months | 20 years, 4 months | 21 years, 4 months |
| Median age  | 21 years, 1 month  | 20 years, 7 months | 21 years           |

TABLE XVIII

CLASSIFICATION OF STUDENTS ATTENDING ONE OR MORE COURSES OF  
INSTRUCTION IN THE VARIOUS DEPARTMENTS

| 1919-1920                                   | College  |            |         |         |                    | Law | Medicine | Mining, Engineering<br>and Chemistry | Architecture | Journalism | Business | Dentistry | Graduate Facilities | Unclassified<br>Graduate Students | Total Number<br>of Students |
|---|----------|------------|---------|---------|--------------------|-----|----------|--------------------------------------|--------------|------------|----------|-----------|---------------------|-----------------------------------|-----------------------------|
|   | Freshmen | Sophomores | Juniors | Seniors | Non-<br>candidates |     |          |                                      |              |            |          |           |                     |                                   |                             |
| <i>Department</i>                           |          |            |         |         |                    |     |          |                                      |              |            |          |           |                     |                                   |                             |
| Agriculture                                 |          |            |         |         |                    |     |          |                                      |              |            |          |           |                     |                                   |                             |
| Anatomy (incl. Histology<br>and Embryology) |          |            | 5       | 22      |                    |     | 164      |                                      |              |            |          | 4         | 6                   | 1                                 | 7                           |
| Anthropology                                | 2        | 2          | 6       | 11      | 1                  |     |          |                                      |              | 1          |          |           | 5                   |                                   | 200                         |
| Architecture                                | 1        | 3          | 3       | 2       | 1                  |     |          |                                      | 63           |            |          |           | 1                   | 1                                 | 47                          |
| Astronomy                                   | 33       | 28         | 30      | 15      | 1                  |     |          | 2                                    |              |            |          |           | 4                   |                                   | 75                          |
| Bacteriology                                |          |            |         | 14      |                    |     | 76       |                                      |              |            |          |           | 18                  |                                   | 113                         |
| Biological Chemistry                        |          |            |         |         |                    |     | 88       |                                      |              |            |          | 4         | 14                  | 3                                 | 110                         |
| Botany                                      | 3        | 6          | 6       | 3       |                    |     |          |                                      |              |            |          |           | 23                  | 2                                 | 109                         |
| Business                                    | 13       | 30         | 57      | 80      | 7                  | 1   |          | 3                                    |              | 3          | 265      |           | 88                  | 14                                | 46                          |
| Chemical Engineering                        | 1        |            | 1       | 29      | 1                  |     |          | 67                                   |              |            |          |           | 31                  | 4                                 | 561                         |
| Chemistry                                   | 195      | 244        | 152     | 97      | 31                 |     |          | 55                                   |              |            |          |           | 149                 | 15                                | 134                         |
| Civil Engineering                           |          | 1          | 2       | 16      |                    |     |          | 69                                   |              |            |          |           | 3                   |                                   | 938                         |
| Classical Philology                         |          |            |         |         |                    |     |          |                                      |              |            |          |           |                     |                                   | 91                          |
| Classical Civilization                      | 8        | 3          | 5       | 2       |                    |     |          |                                      |              |            |          |           |                     |                                   | 18                          |
| Greek                                       | 5        | 4          | 3       | 7       |                    |     |          |                                      |              |            |          |           | 20                  | 2                                 | 41                          |
| Latin                                       | 14       | 6          | 7       | 4       |                    |     |          |                                      |              |            |          |           | 28                  | 1                                 | 60                          |
| Comparative Philology                       |          |            |         |         |                    |     |          |                                      |              |            |          |           | 3                   |                                   | 3                           |
| Contemporary Civilization                   | 492      | 5          | 19      | 6       | 26                 |     |          |                                      |              |            |          | 4         |                     |                                   | 548                         |
| Dentistry                                   |          |            |         |         |                    |     |          |                                      |              |            |          |           |                     |                                   | 4                           |
| Dermatology and Syphilology                 |          |            |         |         |                    |     | 117      |                                      |              |            |          |           |                     |                                   | 117                         |
| Diseases of Children                        |          |            |         |         |                    |     | 218      |                                      |              |            |          |           |                     |                                   | 218                         |
| Drawing                                     | 4        | 2          |         |         |                    |     |          |                                      |              |            |          |           |                     |                                   | 6                           |
| Economics                                   | 78       | 203        | 143     | 116     | 18                 | 1   |          | 5                                    | 2            | 12         | 43       |           | 236                 | 34                                | 891                         |
| Education                                   | 1        | 2          | 2       | 18      | 1                  |     |          |                                      |              |            | 3        |           | 62                  | 7                                 | 96                          |
| Electrical Engineering                      |          |            |         | 30      |                    |     |          | 106                                  |              |            |          |           | 9                   | 1                                 | 146                         |
| Engineering Drafting                        |          |            |         |         |                    |     |          | 10                                   | 1            |            |          |           |                     |                                   | 11                          |
| English and Comparative<br>Literature       | 610      | 423        | 206     | 122     | 55                 | 1   |          |                                      |              | 2          | 12       |           | 262                 | 158                               | 1,851                       |
| Fine Arts                                   | 1        |            |         |         |                    |     |          |                                      |              |            |          |           | 15                  | 3                                 | 19                          |
| General Linguistics                         |          |            |         |         |                    |     |          |                                      |              |            |          |           | 7                   | 1                                 | 8                           |
| Geology                                     | 45       | 7          | 14      | 17      | 6                  |     |          | 27                                   |              |            |          |           | 26                  | 7                                 | 149                         |
| Geography                                   | 16       | 56         | 16      | 10      | 6                  |     |          |                                      |              |            | 14       |           | 1                   |                                   | 119                         |
| Germanic Languages and<br>Literatures       | 151      | 80         | 43      | 26      | 8                  |     |          |                                      |              | 8          | 16       |           | 32                  | 1                                 | 365                         |
| Government                                  | 129      | 95         | 52      | 19      | 12                 | 2   |          |                                      |              | 2          |          |           | 34                  | 5                                 | 350                         |
| Gynecology and Obstetrics                   |          |            |         |         |                    |     | 218      |                                      |              |            |          |           |                     |                                   | 218                         |
| History and Political<br>Philosophy         | 77       | 241        | 137     | 89      | 20                 | 3   |          |                                      |              | 17         | 10       |           | 123                 | 28                                | 745                         |
| Hygiene and Preventive<br>Medicine          | 1        | 5          | 2       | 5       | 1                  |     | 101      |                                      |              |            |          |           |                     |                                   | 115                         |
| Journalism                                  | 1        |            | 3       |         |                    |     |          |                                      |              | 123        |          |           | 23                  |                                   | 152                         |
| Laryngology (incl. Otology)                 |          |            |         |         |                    |     | 117      |                                      |              |            |          |           |                     |                                   | 117                         |
| Mathematics                                 | 441      | 241        | 106     | 140     | 35                 | 1   |          |                                      | 12           |            | 4        |           | 43                  | 6                                 | 1,029                       |
| Mechanical Engineering                      |          |            |         | 29      |                    |     |          | 113                                  |              |            | 1        |           | 13                  | 1                                 | 157                         |
| Mechanics (Mathematical<br>Physics)         | 6        | 2          | 23      | 48      | 8                  |     |          |                                      | 7            |            |          |           |                     |                                   | 121                         |
| Metalurgy                                   |          |            |         | 13      |                    |     |          | 25                                   |              |            |          |           | 17                  | 6                                 | 94                          |
| Military Science                            | 69       | 33         | 11      | 10      | 3                  |     |          | 58                                   |              |            |          |           |                     |                                   | 120                         |
| Mineralogy                                  | 1        | 1          |         | 8       | 3                  |     |          | 16                                   |              |            |          |           | 10                  | 2                                 | 41                          |
| Mining                                      |          |            |         |         |                    |     |          | 18                                   |              |            |          |           | 9                   | 1                                 | 28                          |
| Municipal and Private Law                   |          |            |         | 76      |                    | 450 |          |                                      |              |            | 3        |           | 3                   | 2                                 | 534                         |
| Music                                       | 13       | 14         | 15      | 17      | 2                  |     |          |                                      |              | 1          | 2        |           | 10                  | 3                                 | 77                          |
| Neurology and Psychology                    |          |            |         |         |                    |     | 218      |                                      |              |            |          |           | 15                  | 2                                 | 235                         |

TABLE XVIII—(Continued)

| 1919-1920                                     | College  |            |         |         |                | Law | Medicine | Applied Science | Architecture | Journalism | Business | Dentistry | Graduate Faculties | Unclassified Graduate Students | Total Number of Students |
|---|----------|------------|---------|---------|----------------|-----|----------|-----------------|--------------|------------|----------|-----------|--------------------|--------------------------------|--------------------------|
|   | Freshmen | Sophomores | Juniors | Seniors | Non-Candidates |     |          |                 |              |            |          |           |                    |                                |                          |
| <i>Department</i>                             |          |            |         |         |                |     |          |                 |              |            |          |           |                    |                                |                          |
| Ophthalmology                                 |          |            |         |         |                |     | 117      |                 |              |            |          |           |                    |                                | 117                      |
| Oriental Languages                            |          |            |         |         |                |     |          |                 |              |            |          |           |                    |                                |                          |
| Indo-Iranian Languages                        |          |            |         | 2       |                |     |          |                 |              |            |          |           | 16                 | 2                              | 20                       |
| Semitic Languages                             |          |            |         |         |                |     |          |                 |              |            |          |           | 16                 |                                | 16                       |
| Orthopedic Surgery                            |          |            |         |         |                |     | 218      |                 |              |            |          |           |                    |                                | 218                      |
| Pathology                                     |          |            |         |         | 14             |     | 117      |                 |              |            |          |           | 1                  |                                | 132                      |
| Pharmacology, Materia Medica and Therapeutics |          |            |         |         | 14             |     | 76       |                 |              |            |          |           |                    |                                | 90                       |
| Philosophy                                    | 64       | 128        | 63      | 58      | 13             |     |          |                 | 1            | 1          | 1        |           | 113                | 12                             | 454                      |
| Phonetics                                     |          |            |         |         |                |     |          |                 |              |            |          |           | 6                  | 2                              | 8                        |
| Physical Education, (incl. Hygiene)           | 627      | 402        | 124     | 63      | 50             |     |          |                 |              |            | 3        |           | 18                 |                                | 1,287                    |
| Physics                                       | 140      | 165        | 96      | 88      | 24             |     |          | 49              |              |            | 1        |           | 65                 | 7                              | 635                      |
| Physiology                                    |          | 1          | 9       | 13      |                |     | 88       |                 |              |            |          |           | 11                 |                                | 122                      |
| Practice of Medicine                          |          |            |         |         |                |     | 218      |                 |              |            |          |           | 1                  |                                | 219                      |
| Psychology                                    | 13       | 18         | 73      | 44      | 3              |     |          |                 | 2            | 2          |          |           | 92                 | 14                             | 261                      |
| Public Law                                    |          |            |         | 1       | 1              |     |          |                 |              |            |          |           | 84                 | 7                              | 167                      |
| Religion                                      | 4        | 8          | 11      | 7       |                |     | 70       |                 |              |            | 4        |           |                    |                                | 30                       |
| Roman Law and Jurisprudence                   |          |            |         |         |                |     | 18       |                 |              |            |          |           | 16                 | 1                              | 35                       |
| Romance Languages and Literatures             |          |            |         |         |                |     |          |                 |              |            |          |           |                    |                                |                          |
| Celtic  |          |            |         |         |                |     |          |                 |              |            |          |           | 1                  | 1                              | 2                        |
| French  | 215      | 184        | 118     | 51      | 14             |     |          |                 | 1            | 22         | 48       |           | 99                 | 13                             | 765                      |
| Italian                                       |          |            |         | 1       |                |     |          |                 |              |            |          |           | 6                  | 1                              | 8                        |
| Spanish                                       | 116      | 54         | 36      | 32      | 7              |     |          |                 |              | 2          | 35       |           | 88                 | 16                             | 386                      |
| Slavonic Languages and Literatures            |          |            |         |         |                |     |          |                 |              |            |          |           |                    |                                |                          |
| General Slavonic                              |          | 2          |         | 1       |                |     |          |                 |              |            |          |           | 5                  | 2                              | 10                       |
| Russian                                       |          |            |         |         |                |     |          |                 |              |            | 1        |           | 11                 | 4                              | 16                       |
| Sociology and Statistics                      | 1        | 7          | 11      | 18      |                |     |          |                 | 2            | 21         |          |           | 277                | 28                             | 365                      |
| Surgery                                       |          |            |         | 14      |                |     | 294      |                 |              |            |          |           |                    |                                | 308                      |
| Urology                                       |          |            |         |         |                |     | 117      |                 |              |            |          |           |                    |                                | 117                      |
| Zoology                                       | 17       | 48         | 49      | 15      | 5              |     |          |                 |              |            |          |           | 42                 | 4                              | 180                      |

TABLE XIX

AGGREGATE ATTENDANCE IN ALL COURSES, 1919-1920 (EXCLUDING COURSES  
IN SUMMER SESSION, EXTENSION TEACHING, TEACHERS COLLEGE,  
BARNARD COLLEGE AND THE COLLEGE OF PHARMACY)

| 1919-1920                                     | Number of<br>Half-Year<br>Courses | Number of<br>Registrations | Percentage<br>of Total<br>Enrollment |
|---|-----------------------------------|----------------------------|--------------------------------------|
| <i>Departments</i>                            |                                   |                            |                                      |
| Anatomy (Including Histology)                 | 15                                | 770                        | 1.58                                 |
| Anthropology                                  | 10                                | 88                         | 0.17                                 |
| Architecture                                  | 48                                | 631                        | 1.30                                 |
| Astronomy                                     | 4                                 | 133                        | 0.26                                 |
| Bacteriology                                  | 12                                | 193                        | 0.38                                 |
| Biological Chemistry                          | 15                                | 217                        | 0.43                                 |
| Botany  | 28                                | 102                        | 0.21                                 |
| Business (Including Accounting)               | 51                                | 2,443                      | 5.04                                 |
| Chemical Engineering                          | 17                                | 337                        | 0.68                                 |
| Chemistry                                     | 72                                | 2,257                      | 4.65                                 |
| Civil Engineering                             | 22                                | 195                        | 0.40                                 |
| Classical Philology                           | 2                                 | 7                          | 0.01                                 |
| Classical Civilization                        | 2                                 | 22                         | 0.04                                 |
| Comparative Philology                         | 1                                 | 4                          | 0.01                                 |
| Greek   | 20                                | 91                         | 0.19                                 |
| Latin   | 31                                | 153                        | 0.31                                 |
| Contemporary Civilization                     | 3                                 | 992                        | 2.04                                 |
| Dermatology and Syphilology                   | 8                                 | 355                        | 0.73                                 |
| Diseases of Children                          | 15                                | 1,001                      | 2.06                                 |
| Drawing                                       | 1                                 | 8                          | 0.01                                 |
| Economics                                     | 32                                | 1,849                      | 3.81                                 |
| Electrical Engineering                        | 38                                | 369                        | 0.76                                 |
| Engineering Drafting                          | 8                                 | 345                        | 0.71                                 |
| English and Comparative Literature            | 70                                | 4,397                      | 8.87                                 |
| Geography                                     | 2                                 | 193                        | 0.39                                 |
| Geology                                       | 38                                | 383                        | 0.79                                 |
| Germanic Languages and Literatures            | 38                                | 734                        | 1.52                                 |
| Government                                    | 14                                | 508                        | 1.05                                 |
| Gynecology and Obstetrics                     | 18                                | 1,450                      | 2.98                                 |
| History and Political Philosophy              | 43                                | 1,960                      | 4.04                                 |
| Hygiene and Preventive Medicine               | 2                                 | 202                        | 0.42                                 |
| Journalism                                    | 24                                | 1,047                      | 2.15                                 |
| Laryngology (Including Otology)               | 12                                | 952                        | 1.96                                 |
| Linguistics                                   | 1                                 | 8                          | 0.01                                 |
| Mathematics                                   | 37                                | 1,590                      | 3.28                                 |
| Mechanical Engineering                        | 40                                | 560                        | 1.15                                 |
| Mechanics (Including Mathematical Physics)    | 5                                 | 156                        | 0.31                                 |
| Metallurgy                                    | 26                                | 248                        | 0.51                                 |
| Military Science                              | 6                                 | 231                        | 0.46                                 |
| Mineralogy                                    | 7                                 | 52                         | 0.11                                 |
| Mining  | 13                                | 108                        | 0.21                                 |
| Municipal and Private Law                     | 23                                | 4,110                      | 8.48                                 |
| Music   | 18                                | 300                        | 0.62                                 |
| Neurology                                     | 18                                | 1,421                      | 2.93                                 |
| Ophthalmology                                 | 4                                 | 238                        | 0.49                                 |
| Oriental Languages                            |                                   |                            |                                      |
| Indo-Iranian Languages                        | 13                                | 33                         | 0.07                                 |
| Semitic Languages                             | 13                                | 30                         | 0.06                                 |
| Orthopedic Surgery                            | 4                                 | 436                        | 0.90                                 |
| Pathology                                     | 6                                 | 356                        | 0.73                                 |
| Pharmacology, Materia Medica and Therapeutics | 8                                 | 76                         | 0.16                                 |
| Philosophy (Including Ethics)                 | 34                                | 855                        | 1.75                                 |
| Physical Education (Including Hygiene)        | 9                                 | 2,840                      | 5.86                                 |
| Physics                                       | 43                                | 1,248                      | 2.57                                 |
| Physiology                                    | 13                                | 219                        | 0.45                                 |
| Practice of Medicine                          | 28                                | 2,318                      | 4.78                                 |
| Psychology                                    | 17                                | 595                        | 1.22                                 |
| Public Law                                    | 12                                | 315                        | 0.65                                 |

TABLE XIX—(Continued)

| 1919-1920                         | Number of<br>Half-Year<br>Courses | Number of<br>Registrations | Percentage<br>of Total<br>Enrolment |
|-----------------------------------|-----------------------------------|----------------------------|-------------------------------------|
| <i>Departments</i>                |                                   |                            |                                     |
| Religion                          | 2                                 | 30                         | 0.06                                |
| Roman Law and Jurisprudence       | 4                                 | 46                         | 0.09                                |
| Romance Languages and Literatures |                                   |                            |                                     |
| Celtic                            | 2                                 | 4                          | 0.01                                |
| French                            | 45                                | 1,796                      | 3.71                                |
| Italian                           | 4                                 | 15                         | 0.03                                |
| Phonetics                         | 1                                 | 8                          | 0.01                                |
| Spanish                           | 15                                | 626                        | 1.28                                |
| Slavonic Languages                |                                   |                            |                                     |
| General Slavonics                 | 2                                 | 8                          | 0.01                                |
| Russian                           | 6                                 | 26                         | 0.54                                |
| Sociology and Statistics          | 22                                | 839                        | 1.72                                |
| Surgery                           | 18                                | 1,508                      | 3.12                                |
| Urology                           | 5                                 | 440                        | 0.91                                |
| Zoology                           | 22                                | 387                        | 0.80                                |
| <i>Total</i>                      | <i>1,268</i>                      | <i>48,364</i>              | <i>100.00</i>                       |



## EXTENSION TEACHING

## A. STUDENTS CLASSIFIED ACCORDING TO SEX

|  | Morning-side  | Extra-Mural  | Home Study | Total         |
|--|---------------|--------------|------------|---------------|
| Men  | 6,644         | 220          | 65         | 6,929         |
| Women  | 4,920         | 944          | 80         | 5,944         |
| <i>Total</i>                                       | <i>11,564</i> | <i>1,164</i> | <i>145</i> | <i>12,873</i> |
| Duplicate Registrations:                           |               |              |            |               |
| Matriculated Students                              |               |              |            | 2,398         |
| Summer Session (1919)                              |               |              |            | 458           |
| <i>Total attendance in Extension Teaching only</i> |               |              |            | <i>10,017</i> |

## B. STUDENTS CLASSIFIED AS OLD AND NEW

|                        | Morning-side  | Extra-Mural  | Total         |
|------------------------|---------------|--------------|---------------|
| Number of new students | 7,207         | 742          | 7,949         |
| Number of old students | 4,357         | 422          | 4,779         |
| <i>Total</i>           | <i>11,564</i> | <i>1,164</i> | <i>12,728</i> |

Home Study students are not included in this table

## C. REGISTRATION IN SPECIAL CLASSES (NOT INCLUDED IN OTHER TABLES)

|                  | MEN    |        |      | WOMEN  |        |      | Total        |
|------------------|--------|--------|------|--------|--------|------|--------------|
|                  | Winter | Spring | Both | Winter | Spring | Both |              |
| Agriculture      | 3      | 28     | 1    | 9      | 21     | 1    | 63           |
| Americanization  |        | 12     |      |        | 26     |      | 38           |
| Fine Arts        | 10     | 15     | 11   | 90     | 108    | 52   | 286          |
| Recreation       |        |        |      | 22     | 8      | 23   | 45           |
| Social Science   |        |        |      | 75     |        | 52   | 135          |
| Spoken Languages | 90     | 48     | 13   | 180    | 113    | 69   | 513          |
| <i>Total</i>     |        |        |      |        |        |      | <i>1,080</i> |

## D. STUDENTS CLASSIFIED ACCORDING TO FACULTIES

|                                  | Morning-side  | Extra-Mural  | Home Study | Total         |
|----------------------------------|---------------|--------------|------------|---------------|
| 1. Non-matriculated:             |               |              |            |               |
| Columbia                         | 8,739         | 1,164        | 145        | 10,048        |
| Teachers College (exclusively)   | 590           |              |            | 590           |
| 2. Matriculated:                 |               |              |            |               |
| Columbia College                 | 764           |              |            | 764           |
| Barnard College                  | 34            |              |            | 34            |
| Law School                       | 43            |              |            | 43            |
| Mines, Engineering and Chemistry | 33            |              |            | 33            |
| Architecture                     | 37            |              |            | 37            |
| Journalism                       | 58            |              |            | 58            |
| Business                         | 226           |              |            | 226           |
| Graduate Faculties               | 444           |              |            | 444           |
| Teachers College                 | 590           |              |            | 590           |
| <i>Totals</i>                    | <i>11,564</i> | <i>1,164</i> | <i>145</i> | <i>12,873</i> |

## EXTENSION TEACHING

## E. STUDENTS CLASSIFIED ACCORDING TO RESIDENCE

|  | Morning-<br>side | Extra-<br>Mural | Home<br>Study | Total         |
|--|------------------|-----------------|---------------|---------------|
| <b>New York City:</b>                          |                  |                 |               |               |
| Manhattan and the Bronx                        | 6,053            | 77              | 23            | 6,153         |
| Brooklyn                                       | 1,128            | 87              | 10            | 1,225         |
| Queens   | 260              | 4               |               | 264           |
| Richmond                                       | 68               | 2               |               | 70            |
| New York State (outside New York City)         | 878              | 132             | 24            | 1,034         |
| New Jersey                                     | 1,177            | 424             | 10            | 1,617         |
| <i>Totals</i>                                  | <i>9,564</i>     | <i>726</i>      | <i>73</i>     | <i>10,363</i> |
| <b>Other States:</b>                           |                  |                 |               |               |
| Alabama  | 33               |                 | 2             | 35            |
| Arizona  | 5                |                 |               | 5             |
| Arkansas                                       | 12               |                 |               | 12            |
| California                                     | 60               |                 | 1             | 61            |
| Colorado                                       | 23               |                 |               | 23            |
| Connecticut                                    | 181              | 273             | 9             | 463           |
| Delaware                                       | 8                |                 |               | 8             |
| District of Columbia                           | 42               |                 | 5             | 47            |
| Florida  | 20               |                 |               | 20            |
| Georgia  | 43               |                 | 3             | 46            |
| Idaho  | 4                |                 |               | 4             |
| Illinois                                       | 64               |                 | 3             | 67            |
| Indiana  | 39               |                 |               | 39            |
| Iowa   | 40               |                 | 1             | 41            |
| Kansas   | 17               |                 |               | 17            |
| Kentucky                                       | 21               |                 |               | 21            |
| Louisiana                                      | 17               |                 |               | 17            |
| Maine  | 28               |                 |               | 28            |
| Maryland                                       | 26               |                 | 2             | 28            |
| Massachusetts                                  | 166              |                 | 7             | 173           |
| Michigan                                       | 40               |                 | 1             | 41            |
| Minnesota                                      | 33               |                 | 2             | 35            |
| Mississippi                                    | 11               |                 | 1             | 12            |
| Missouri                                       | 61               |                 | 1             | 62            |
| Montana  | 12               |                 | 1             | 13            |
| Nebraska                                       | 17               |                 | 1             | 18            |
| Nevada   | 2                |                 | 1             | 3             |
| New Hampshire                                  | 17               | 1               |               | 18            |
| New Mexico                                     | 4                |                 |               | 4             |
| North Carolina                                 | 24               |                 | 1             | 25            |
| North Dakota                                   | 6                |                 |               | 6             |
| Ohio   | 96               |                 | 4             | 100           |
| Oklahoma                                       | 14               |                 | 1             | 15            |
| Oregon   | 27               |                 | 1             | 28            |
| Pennsylvania                                   | 193              | 164             | 9             | 366           |
| Rhode Island                                   | 20               |                 |               | 20            |
| South Carolina                                 | 23               |                 | 2             | 25            |
| South Dakota                                   | 10               |                 |               | 10            |
| Tennessee                                      | 32               |                 | 1             | 33            |
| Texas  | 77               |                 | 2             | 79            |
| Utah   | 17               |                 | 1             | 18            |
| Vermont  | 19               |                 | 1             | 20            |
| Virginia                                       | 47               |                 | 2             | 49            |
| Washington                                     | 33               |                 | 1             | 34            |
| West Virginia                                  | 18               |                 | 1             | 19            |
| Wisconsin                                      | 30               |                 |               | 30            |
| Wyoming  | 5                |                 |               | 5             |
| <i>Totals</i>                                  | <i>11,301</i>    | <i>1,164</i>    | <i>141</i>    | <i>12,606</i> |
| <b>Insular and Non-contiguous Territories:</b> |                  |                 |               |               |
| Hawaiian Islands                               | 2                |                 |               | 2             |
| Philippine Islands                             | 22               |                 |               | 22            |
| Porto Rico                                     | 8                |                 |               | 8             |

## EXTENSION TEACHING

E. STUDENTS CLASSIFIED ACCORDING TO RESIDENCE (*Continued*)

|                     | Morning-<br>side | Extra-<br>Mural | Home<br>Study | Total  |
|---------------------|------------------|-----------------|---------------|--------|
| Foreign Countries:  |                  |                 |               |        |
| Africa              | 1                |                 |               | 1      |
| Australia           | 2                |                 |               | 2      |
| Brazil              | 1                |                 |               | 1      |
| Canada              | 51               |                 | 2             | 53     |
| Chile               | 4                |                 |               | 4      |
| China               | 43               |                 |               | 43     |
| Colombia            | 3                |                 |               | 3      |
| Cuba                | 10               |                 | 2             | 12     |
| Cyprus              | 1                |                 |               | 1      |
| Denmark             | 1                |                 |               | 1      |
| England             | 4                |                 |               | 4      |
| France              | 4                |                 |               | 4      |
| Greece              | 1                |                 |               | 1      |
| Holland             | 1                |                 |               | 1      |
| Iceland             | 2                |                 |               | 2      |
| India               | 4                |                 |               | 4      |
| Jamaica             | 2                |                 |               | 2      |
| Japan               | 57               |                 |               | 57     |
| Korea               | 2                |                 |               | 2      |
| Mexico              | 4                |                 |               | 4      |
| New Zealand         | 1                |                 |               | 1      |
| Norway              | 6                |                 |               | 6      |
| Palestine           | 1                |                 |               | 1      |
| Panama              | 1                |                 |               | 1      |
| Persia              | 1                |                 |               | 1      |
| Peru                | 3                |                 |               | 3      |
| Roumania            | 3                |                 |               | 3      |
| Russia              | 7                |                 |               | 7      |
| Siam                | 1                |                 |               | 1      |
| Sweden              | 1                |                 |               | 1      |
| Switzerland         | 4                |                 |               | 4      |
| Syria               | 1                |                 |               | 1      |
| Turkey              | 2                |                 |               | 2      |
| Venezuela           | 1                |                 |               | 1      |
| <i>Totals</i>       | 263              |                 | 4             | 267    |
| <i>Grand Totals</i> | 11,564           | 1,164           | 143           | 12,871 |

## EXTENSION TEACHING

## F. AGGREGATE ATTENDANCE ON COURSES

| Subject                 | No. of Half-Year Courses |             |       | No. of Registrations |             |       | Percentage of Total Enrollment |
|-------------------------|--------------------------|-------------|-------|----------------------|-------------|-------|--------------------------------|
|                         | Morning-side             | Extra-Mural | Total | Morning-side         | Extra-Mural | Total |                                |
| Administration          | 16                       |             | 16    | 53                   |             | 53    | .15836                         |
| Advanced Dentistry      |                          | 34          | 34    |                      | 287         | 287   | .85757                         |
| Agriculture             | 18                       |             | 18    | 166                  |             | 166   | .49602                         |
| Architecture            | 40                       |             | 40    | 627                  |             | 627   | 1.87349                        |
| Armenian                | 2                        |             | 2     | 3                    |             | 3     | .00896                         |
| Astronomy               | 2                        |             | 2     | 51                   |             | 51    | .15239                         |
| Automobile Engineering  | 1                        |             | 1     | 7                    |             | 7     | .02092                         |
| Biology                 | 9                        |             | 9     | 24                   |             | 24    | .07172                         |
| Bookkeeping             | 2                        |             | 2     | 110                  |             | 110   | .34602                         |
| Botany                  | 5                        |             | 5     | 93                   |             | 93    | .27789                         |
| Business                | 77                       |             | 77    | 6,475                |             | 6,475 | 19.34742                       |
| Business English        | 3                        |             | 3     | 617                  |             | 617   | 1.84301                        |
| Chemistry               | 18                       | 4           | 22    | 740                  | 282         | 1,022 | 3.05375                        |
| Chinese                 | 2                        |             | 2     | 16                   |             | 16    | .04781                         |
| Civil Engineering       | 4                        |             | 4     | 78                   |             | 78    | .23306                         |
| Clothing                | 38                       |             | 38    | 360                  |             | 360   | 1.07568                        |
| Comparative Literature  | 9                        |             | 9     | 422                  |             | 422   | 1.26094                        |
| Cookery                 | 19                       |             | 19    | 217                  |             | 217   | .64840                         |
| Czech                   | 4                        |             | 4     | 13                   |             | 13    | .03885                         |
| Drafting                | 7                        |             | 7     | 123                  |             | 123   | .36752                         |
| Drawing                 | 6                        |             | 6     | 27                   |             | 27    | .08068                         |
| Economics               | 7                        | 1           | 8     | 886                  | 64          | 950   | 2.83861                        |
| Education               |                          | 6           | 6     |                      | 580         | 580   | 1.73305                        |
| Electrical Engineering  | 6                        |             | 6     | 143                  |             | 143   | .42728                         |
| English                 | 63                       | 10          | 73    | 5,510                | 802         | 6,321 | 18.88726                       |
| Fine Arts               | 46                       |             | 46    | 407                  |             | 407   | 1.21612                        |
| French                  | 24                       | 4           | 28    | 1,758                | 94          | 1,852 | 5.53381                        |
| Geography               | 2                        |             | 2     | 26                   |             | 26    | .07761                         |
| Geology                 | 6                        |             | 6     | 50                   |             | 50    | .14940                         |
| German                  | 17                       | 4           | 21    | 310                  | 84          | 394   | 1.17728                        |
| Government              | 4                        |             | 4     | 270                  |             | 270   | .80676                         |
| Greek                   | 2                        |             | 2     | 27                   |             | 27    | .08068                         |
| History                 | 23                       | 2           | 25    | 1,406                | 88          | 1,494 | 4.46410                        |
| Household Economics     | 2                        |             | 2     | 4                    |             | 4     | .01195                         |
| Hygiene                 | 2                        |             | 2     | 35                   |             | 35    | .10458                         |
| Industrial Arts         | 5                        |             | 5     | 51                   |             | 51    | .15239                         |
| International Law       | 6                        |             | 6     | 84                   |             | 84    | .25099                         |
| International Relations | 3                        |             | 3     | 50                   |             | 50    | .14940                         |
| Italian                 | 4                        |             | 4     | 77                   |             | 77    | .23008                         |
| Journalism              | 2                        |             | 2     | 100                  |             | 100   | .29880                         |
| Latin                   | 10                       |             | 10    | 120                  |             | 120   | .35856                         |
| Law                     | 3                        |             | 3     | 235                  |             | 235   | .70218                         |
| Library Economy         | 11                       |             | 11    | 272                  |             | 272   | .81275                         |
| Mathematics             | 19                       |             | 19    | 1,022                |             | 1,022 | 3.05375                        |
| Metalworking            | 1                        |             | 1     | 1                    |             | 1     | .00299                         |
| Music                   | 14                       |             | 14    | 75                   |             | 75    | .22410                         |
| Neurology               | 2                        |             | 2     | 37                   |             | 37    | .11056                         |
| Nursing                 | 7                        |             | 7     | 60                   |             | 60    | .17928                         |
| Nutrition               | 3                        |             | 3     | 35                   |             | 35    | .10458                         |
| Optometry               | 19                       |             | 19    | 556                  |             | 556   | 1.66134                        |
| Philosophy              | 12                       | 2           | 14    | 663                  | 77          | 740   | 2.21114                        |
| Phonetics               | 18                       |             | 18    | 154                  |             | 154   | .46016                         |
| Photoplay Composition   | 5                        |             | 5     | 160                  |             | 160   | .47808                         |
| Physical Education      | 25                       |             | 25    | 279                  |             | 279   | .83366                         |
| Physical Training       | 8                        |             | 8     | 84                   |             | 84    | .25099                         |
| Physics                 | 5                        | 2           | 7     | 192                  | 129         | 321   | .95916                         |
| Polish                  | 4                        |             | 4     | 23                   |             | 23    | .06872                         |
| Practical Arts          | 1                        |             | 1     | 4                    |             | 4     | .01195                         |

## EXTENSION TEACHING

F. AGGREGATE ATTENDANCE ON COURSES (*Continued*)

| SUBJECT                    | No. of Half-Year Courses |             |            | No. of Registrations |              |               | Percentage of Total Enrollment |
|----------------------------|--------------------------|-------------|------------|----------------------|--------------|---------------|--------------------------------|
|                            | Morning-side             | Extra Mural | Total      | Morning-side         | Extra Mural  | Total         |                                |
| Practical Arts Chemistry   | 10                       |             | 10         | 40                   |              | 40            | .11952                         |
| Practical Arts English     | 1                        |             | 1          | 1                    |              | 1             | .00299                         |
| Practical Arts French      | 1                        |             | 1          | 1                    |              | 1             | .00299                         |
| Practical Arts History     | 1                        |             | 1          | 1                    |              | 1             | .00299                         |
| Practical Arts Hygiene     | 7                        |             | 7          | 15                   |              | 15            | .04482                         |
| Practical Arts Music       | 23                       |             | 23         | 80                   |              | 80            | .23904                         |
| Practical Arts Physics     | 1                        |             | 1          | 2                    |              | 2             | .00597                         |
| Psychology                 | 15                       | 2           | 17         | 866                  | 100          | 966           | 2.88643                        |
| Rumanian                   | 1                        |             | 1          | 4                    |              | 4             | .01195                         |
| Russian                    | 7                        |             | 7          | 50                   |              | 50            | .14940                         |
| Secretarial Correspondence | 2                        |             | 2          | 104                  |              | 104           | .31075                         |
| Slavonic                   | 1                        |             | 1          | 4                    |              | 4             | .01195                         |
| Social Science             | 1                        |             | 1          | 3                    |              | 3             | .00896                         |
| Sociology                  | 19                       |             | 19         | 366                  |              | 366           | 1.09362                        |
| Spanish                    | 20                       |             | 20         | 1,674                |              | 1,674         | 5.00194                        |
| Speech                     | 14                       |             | 14         | 88                   |              | 88            | .26294                         |
| Speech Improvement         | 4                        |             | 4          | 54                   |              | 54            | .16135                         |
| Stenography                | 14                       |             | 14         | 829                  |              | 829           | 2.47707                        |
| Textiles                   | 7                        |             | 7          | 32                   |              | 32            | .09561                         |
| Structural Mechanics       | 4                        |             | 4          | 69                   |              | 69            | .20618                         |
| Typewriting                | 10                       |             | 10         | 709                  |              | 709           | 2.11850                        |
| Typography                 | 2                        |             | 2          | 63                   |              | 63            | .18825                         |
| Vocational Guidance        | 1                        |             | 1          | 14                   |              | 14            | .04183                         |
| Zoology                    | 4                        | 4           | 8          | 198                  | 210          | 408           | 1.21911                        |
| <b>Totals</b>              | <b>843</b>               | <b>75</b>   | <b>918</b> | <b>30,670</b>        | <b>2,797</b> | <b>33,467</b> | <b>100.00000</b>               |

## EXTENSION TEACHING

## G. AGGREGATE ATTENDANCE ON HOME STUDY COURSES

| Subject            | Number of<br>Courses | Number of<br>Registrations |
|--------------------|----------------------|----------------------------|
| Agriculture        | 1                    | 3                          |
| Business           | 5                    | 38                         |
| Business English   | 1                    | 3                          |
| English            | 3                    | 37                         |
| French             | 5                    | 9                          |
| History            | 1                    | 1                          |
| Italian            | 1                    | 1                          |
| Mathematics        | 8                    | 17                         |
| Philosophy         | 2                    | 2                          |
| Psychology         | 3                    | 26                         |
| Social Legislation | 1                    | 1                          |
| Sociology          | 2                    | 9                          |
| Spanish            | 3                    | 8                          |
| <i>Totals</i>      | <i>36</i>            | <i>136</i>                 |

Respectfully submitted,

EDWARD J. GRANT,

*Acting Registrar**June 30, 1920*

## SUMMER SESSION, 1920

## SUMMER SESSION ENROLLMENT

1900-1920

| Year | General | Medical | Total | Percentage of Increase Over Preceding Year |
|------|---------|---------|-------|--|
| 1900 | 417     |         | 417   |  |
| 1901 | 579     |         | 579   | 38.85                                      |
| 1902 | 643     |         | 643   | 11.05                                      |
| 1903 | 940     | 53      | 993   | 54.43                                      |
| 1904 | 914     | 47      | 961   | -3.22                                      |
| 1905 | 976     | 42      | 1,018 | 5.93                                       |
| 1906 | 1,008   | 33      | 1,041 | 2.26                                       |
| 1907 | 1,353   | 42      | 1,395 | 33.72                                      |
| 1908 | 1,408   | 34      | 1,532 | 10.05                                      |
| 1909 | 1,949   | 22      | 1,971 | 28.65                                      |
| 1910 |         | 2,632   | 2,632 | 33.54                                      |
| 1911 |         | 2,973   | 2,973 | 12.90                                      |
| 1912 |         | 3,602   | 3,602 | 21.16                                      |
| 1913 |         | 4,539   | 4,539 | 26.01                                      |
| 1914 |         | 5,590   | 5,590 | 23.14                                      |
| 1915 |         | 5,961   | 5,961 | 6.63                                       |
| 1916 |         | 8,023   | 8,023 | 34.59                                      |
| 1917 |         | 6,144   | 6,144 | -23.42                                     |
| 1918 |         | 6,022   | 6,022 | -1.99                                      |
| 1919 |         | 9,539   | 9,539 | 58.40                                      |
| 1920 |         | 9,780   | 9,780 | 2.52                                       |

## SUMMER SESSION, 1920

| Classification  | Numbers | Number Totals | Percentages | Percentage Totals |
|---|---------|---------------|-------------|-------------------|
| <b>A. STUDENTS CLASSIFIED ACCORDING TO SEX</b>                |         |               |             |                   |
| Men   | 3,211   |               | 32.84       |                   |
| Women   | 6,569   | 9,780         | 67.16       | 100.00            |
| <b>B. STUDENTS CLASSIFIED AS OLD AND NEW</b>                  |         |               |             |                   |
| Previously registered   | 3,991   |               | 40.81       |                   |
| New students  | 5,789   | 9,780         | 59.19       | 100.00            |
| <b>C. STUDENTS CLASSIFIED ACCORDING TO FACULTIES</b>          |         |               |             |                   |
| I. Non-matriculated   |         | 5,939         | 60.73       |                   |
| II. Matriculated:   |         |               |             |                   |
| 1. Columbia College   | 352     |               |             |                   |
| 2. Barnard College  | 64      |               |             |                   |
| 3. Applied Science  | 28      |               |             |                   |
| 4. Law  | 145     |               |             |                   |
| 5. Medicine   | 53      |               |             |                   |
| 6. Architecture   | 19      |               |             |                   |
| 7. Political Science  | 216     |               |             |                   |
| 8. Philosophy   | 369     |               |             |                   |
| 9. Pure Science   | 127     |               |             |                   |
| 10. Ph.D. in Education  | 137     |               |             |                   |
| 11. Teachers College:   |         |               |             |                   |
| Undergraduate   | 954     |               |             |                   |
| Graduate  | 1,171   |               |             |                   |
| Unclassified  | 141     |               |             |                   |
| 12. Journalism  | 20      |               |             |                   |
| 13. Business  | 45      | 3,841         | 39.27       | 100.00            |
| <b>D. STUDENTS CLASSIFIED ACCORDING TO TEACHING POSITIONS</b> |         |               |             |                   |
| Elementary schools  | 1,759   |               | 17.98       |                   |
| Secondary schools   | 1,536   |               | 15.71       |                   |
| Higher educational institutions                               | 531     |               | 5.43        |                   |
| Normal schools  | 203     |               | 2.07        |                   |
| Industrial schools  | 16      |               | .16         |                   |
| Principals (school)   | 517     |               | 5.28        |                   |
| Assistant principals (school)                                 | 98      |               | 1.00        |                   |
| Supervisors   | 276     |               | 2.82        |                   |
| Superintendents   | 176     |               | 1.80        |                   |
| Special teachers  | 146     |               | 1.49        |                   |
| Private school teachers                                       | 307     |               | 3.15        |                   |
| Private teachers  | 31      |               | .32         |                   |
| Librarians  | 12      |               | .12         |                   |
| Technical schools   | 19      |               | .19         |                   |
| Business schools  | 8       |               | .09         |                   |
| Vocational schools  | 29      |               | .30         |                   |
| Institutes  | 71      |               | .73         |                   |
| Not engaged in teaching                                       | 4,045   | 9,780         | 41.36       | 100.00            |
| <b>E. STUDENTS CLASSIFIED ACCORDING TO RESIDENCE</b>          |         |               |             |                   |
| North Atlantic Division:                                      |         |               |             |                   |
| Connecticut   | 256     |               |             |                   |
| Maine   | 71      |               |             |                   |
| Massachusetts   | 350     |               |             |                   |
| New Hampshire   | 43      |               |             |                   |
| New Jersey  | 646     |               |             |                   |



## SUMMER SESSION, 1920

| Classification   | Numbers | Number Totals | Percentages | Percentage Totals |
|--|---------|---------------|-------------|-------------------|
| <b>E. STUDENTS CLASSIFIED ACCORDING TO RESIDENCE—Continued</b> |         |               |             |                   |
| New York   |         |               |             |                   |
| Outside of N. Y. City 878                                      |         |               |             |                   |
| Manhattan and  |         |               |             |                   |
| Bronx 1,621  |         |               |             |                   |
| Brooklyn 419   |         |               |             |                   |
| Queens 135   |         |               |             |                   |
| Richmond 18  |         |               |             |                   |
| 2,193  | 3,071   |               |             |                   |
| Pennsylvania   | 716     |               |             |                   |
| Rhode Island   | 52      |               |             |                   |
| Vermont  | 69      |               |             |                   |
|  |         | 5,274         |             | 53.92             |
| South Atlantic Division:                                       |         |               |             |                   |
| Delaware   | 23      |               |             |                   |
| District of Columbia   | 90      |               |             |                   |
| Florida  | 49      |               |             |                   |
| Georgia  | 226     |               |             |                   |
| Maryland   | 162     |               |             |                   |
| North Carolina   | 244     |               |             |                   |
| South Carolina   | 163     |               |             |                   |
| Virginia   | 315     |               |             |                   |
| West Virginia  | 121     |               |             |                   |
|  |         | 1,393         |             | 14.25             |
| North Central Division:  |         |               |             |                   |
| Illinois   | 145     |               |             |                   |
| Indiana  | 207     |               |             |                   |
| Iowa   | 105     |               |             |                   |
| Kansas   | 95      |               |             |                   |
| Michigan   | 240     |               |             |                   |
| Minnesota  | 116     |               |             |                   |
| Missouri   | 136     |               |             |                   |
| Nebraska   | 83      |               |             |                   |
| North Dakota   | 9       |               |             |                   |
| Ohio   | 570     |               |             |                   |
| South Dakota   | 18      |               |             |                   |
| Wisconsin  | 122     |               |             |                   |
|  |         | 1,906         |             | 19.49             |
| South Central Division:  |         |               |             |                   |
| Alabama  | 107     |               |             |                   |
| Arkansas   | 52      |               |             |                   |
| Kentucky   | 98      |               |             |                   |
| Louisiana  | 33      |               |             |                   |
| Mississippi  | 48      |               |             |                   |
| Oklahoma   | 32      |               |             |                   |
| Tennessee  | 109     |               |             |                   |
| Texas  | 217     |               |             |                   |
|  |         | 696           |             | 7.12              |
| Western Division:  |         |               |             |                   |
| Arizona  | 16      |               |             |                   |
| California   | 80      |               |             |                   |
| Colorado   | 32      |               |             |                   |
| Idaho  | 11      |               |             |                   |
| Montana  | 16      |               |             |                   |
| Nevada   | 3       |               |             |                   |
| New Mexico   | 7       |               |             |                   |
| Oregon   | 24      |               |             |                   |
| Utah   | 9       |               |             |                   |
| Washington   | 31      |               |             |                   |
| Wyoming  | 2       |               |             |                   |
|  |         | 231           |             | 2.36              |

## SUMMER SESSION, 1920

| Classification   | Numbers | Number Totals | Percentages | Percentage Totals |
|--|---------|---------------|-------------|-------------------|
| <b>E. STUDENTS CLASSIFIED ACCORDING TO RESIDENCE—Continued</b> |         |               |             |                   |
| <b>Insular and Non-Contiguous Territories:</b>                 |         |               |             |                   |
| Alaska   | 1       |               |             |                   |
| Canal Zone   | 4       |               |             |                   |
| Hawaiian Islands   | 2       |               |             |                   |
| Philippine Islands   | 29      |               |             |                   |
| Porto Rico   | 7       |               |             |                   |
|  |         | 43            |             | 44                |
| <i>Totals (United States)</i>                                  |         | 9,343         |             | 97.58             |
| <b>Foreign Countries:</b>                                      |         |               |             |                   |
| Argentina  | 1       |               |             |                   |
| Armenia  | 1       |               |             |                   |
| Belgium  | 1       |               |             |                   |
| Brasil   | 1       |               |             |                   |
| Bulgaria   | 2       |               |             |                   |
| Canada   | 99      |               |             |                   |
| Central America  | 3       |               |             |                   |
| Chili  | 1       |               |             |                   |
| China  | 41      |               |             |                   |
| Colombia   | 2       |               |             |                   |
| Cuba   | 11      |               |             |                   |
| Ecuador  | 2       |               |             |                   |
| England  | 1       |               |             |                   |
| France   | 3       |               |             |                   |
| Germany  | 1       |               |             |                   |
| Holland  | 1       |               |             |                   |
| India  | 3       |               |             |                   |
| Ireland  | 2       |               |             |                   |
| Italy  | 1       |               |             |                   |
| Japan  | 35      |               |             |                   |
| Mexico   | 2       |               |             |                   |
| Norway   | 1       |               |             |                   |
| Peru   | 7       |               |             |                   |
| Russia   | 3       |               |             |                   |
| Scotland   | 1       |               |             |                   |
| Serbia   | 1       |               |             |                   |
| Siam   | 1       |               |             |                   |
| South Africa   | 6       |               |             |                   |
| Spain  | 2       |               |             |                   |
| Turkey   | 1       |               |             |                   |
|  |         | 237           |             | 2.42              |
| <i>Grand Totals</i>  |         | 9,780         |             | 100.00            |

**F. STUDENTS CLASSIFIED ACCORDING TO DEGREES HELD**

4,329 degrees are held by 3,557 of the students as follows:

|         |       |        |    |                 |       |
|---------|-------|--------|----|-----------------|-------|
| A.B.    | 2,427 | D.D.   | 3  | Pd.M.           | 9     |
| A.M.    | 520   | D.D.S. | 5  | Ph.B.           | 179   |
| B.C.S.  | 3     | D.V.M. | 1  | Ph.Ch.          | 1     |
| B.D.    | 31    | Ed.B.  | 1  | Ph.G.           | 10    |
| B.E.    | 21    | E.E.   | 1  | Ph.D.           | 26    |
| B.H.Ec. | 1     | LL.B.  | 51 | Ph.M.           | 3     |
| B.L.    | 55    | LL.D.  | 1  | Phil.D. (Italy) | 1     |
| B.Litt. | 11    | LL.M.  | 6  | S.T.B.          | 4     |
| B.Mus.  | 9     | M.D.   | 29 | B.S.            | 753   |
| B.O.    | 4     | M.E.   | 23 | M.E.L.          | 4     |
| B.S.D.  | 1     | M.S.   | 31 | C.E.            | 7     |
| Pd.B.   | 59    | Misc.  | 38 | <i>Total</i>    | 4,329 |

626 students hold 2 degrees

64 students hold 3 degrees

6 students hold 4 degrees

## SUMMER SESSION, 1920

| Subjects                                   | No. of Courses | No. of Registrations | Percentage of Total Enrollment |
|--|----------------|----------------------|--------------------------------|
| <b>G. AGGREGATE ATTENDANCE ON COURSES:</b> |                |                      |                                |
| Accounting                                 | 1              | 23                   | .095                           |
| Administration                             | 2              | 45                   | .186                           |
| Agriculture                                | 3              | 26                   | .107                           |
| Anatomy                                    | 1              | 5                    | .021                           |
| Architecture                               | 13             | 72                   | .297                           |
| Assyrian                                   | 3              | 7                    | .029                           |
| Astronomy                                  | 3              | 107                  | .441                           |
| Bacteriology                               | 1              | 19                   | .078                           |
| Biology                                    | 6              | 109                  | .449                           |
| Bookkeeping                                | 1              | 13                   | .054                           |
| Botany                                     | 6              | 33                   | .136                           |
| Business                                   | 18             | 593                  | 2.445                          |
| Business English                           | 1              | 32                   | .132                           |
| Cancer Research                            | 1              | 8                    | .033                           |
| Chemical Engineering                       | 6              | 43                   | .177                           |
| Chemistry                                  | 50             | 571                  | 2.355                          |
| Chinese                                    | 1              | 2                    | .008                           |
| Clothing                                   | 8              | 274                  | 1.130                          |
| Comparative Literature                     | 3              | 188                  | .775                           |
| Cookery                                    | 0              | 244                  | 1.006                          |
| Drawing                                    | 4              | 40                   | .202                           |
| Economics                                  | 0              | 291                  | 1.199                          |
| Economic Science                           | 1              | 31                   | .128                           |
| Education                                  | 172            | 10,404               | 42.894                         |
| Electrical Engineering                     | 2              | 16                   | .066                           |
| Engineering Drafting                       | 2              | 41                   | .169                           |
| English                                    | 31             | 1,565                | 6.452                          |
| Fine Arts                                  | 19             | 732                  | 3.018                          |
| French                                     | 21             | 880                  | 3.628                          |
| General Linguistics                        | 1              | 6                    | .025                           |
| Geography                                  | 5              | 120                  | .495                           |
| Geology                                    | 5              | 36                   | .148                           |
| German                                     | 11             | 132                  | .544                           |
| Government                                 | 4              | 83                   | .342                           |
| Greek                                      | 4              | 28                   | .115                           |
| History                                    | 23             | 734                  | 3.026                          |
| Household Arts                             | 24             | 331                  | 1.365                          |
| Hygiene                                    | 4              | 174                  | .717                           |
| Industrial Arts                            | 4              | 67                   | .276                           |
| Italian                                    | 4              | 48                   | .198                           |
| Japanese                                   | 1              | 3                    | .013                           |
| Journalism                                 | 1              | 56                   | .231                           |
| Latin                                      | 14             | 192                  | .792                           |
| Law  | 14             | 461                  | 1.901                          |
| Library Economy                            | 4              | 127                  | .523                           |
| Mathematics                                | 16             | 589                  | 2.428                          |
| Metal Working                              | 2              | 21                   | .087                           |
| Musical                                    | 13             | 377                  | 1.554                          |
| Neurology                                  | 1              | 9                    | .037                           |
| Nursing                                    | 5              | 189                  | .779                           |
| Nutrition                                  | 4              | 86                   | .355                           |
| Penmanship                                 | 1              | 65                   | .268                           |
| Philosophy                                 | 9              | 170                  | .701                           |
| Phonetics                                  | 4              | 20                   | .082                           |
| Photoplay Making                           | 2              | 62                   | .256                           |
| Physical Education                         | 37             | 1,520                | 6.267                          |
| Physics                                    | 14             | 209                  | .862                           |
| Physiology                                 | 6              | 107                  | .441                           |
| Portuguese                                 | 1              | 2                    | .008                           |
| Practice of Medicine                       | 1              | 32                   | .132                           |
| Psychology                                 | 8              | 289                  | 1.191                          |
| Public Health                              | 1              | 20                   | .082                           |

## SUMMER SESSION, 1920

| Subjects  | No. of<br>Courses | No. of<br>Registrations | Percentage<br>of Total<br>Enrollment |
|---|-------------------|-------------------------|--------------------------------------|
| <b>E. AGGREGATE ATTENDANCE ON<br/>COURSES (Continued)</b> |                   |                         |                                      |
| Public Law  | 6                 | 81                      | .335                                 |
| Religion  | 2                 | 29                      | .119                                 |
| Russian   | 3                 | 10                      | .041                                 |
| Secretarial Correspondence                                | 2                 | 23                      | .095                                 |
| Semitic   | 1                 | 7                       | .029                                 |
| Social Science  | 1                 | 123                     | .507                                 |
| Sociology   | 6                 | 208                     | .858                                 |
| Spanish   | 10                | 431                     | 1.777                                |
| Speech  | 4                 | 165                     | .680                                 |
| Statistics  | 3                 | 60                      | .247                                 |
| Stenography   | 4                 | 134                     | .552                                 |
| Surgery   | 1                 | 7                       | .029                                 |
| Textiles  | 1                 | 21                      | .087                                 |
| Typewriting   | 3                 | 117                     | .482                                 |
| Zoology   | 2                 | 51                      | .211                                 |
| <i>Totals</i>   | <i>689</i>        | <i>24,255</i>           | <i>100.000</i>                       |

Respectfully submitted,

EDWARD J. GRANT,  
*Registrar*

*September 1, 1920*

## REPORT OF THE ACTING LIBRARIAN

FOR THE ACADEMIC YEAR ENDING JUNE 30, 1920

*To the President of the University*

SIR:

As Acting Librarian of the University, I have the honor to submit the following report for the year ending June 30, 1920.

General A review of the year in the Library, after the unusual demands made upon it in various directions by the War and the conditions that immediately followed it, shows a return to a relatively normal use of its resources.

There was a considerable increase in the use of books over the preceding year. From the Loan Desk in the General Library 25,500 more volumes were supplied to readers and the department libraries showed in almost every case a largely increased service. Owing to the growth in certain directions in the registration of students, it was found necessary to provide a more certain means of identification than had heretofore been at hand in the history of the Library. At the beginning of the Spring Session a card, now known as a "Library card," was issued to every student using the Library upon presentation of the proper credentials, which provides for his signature, his address, and the School of the University where he is in attendance. The card is accepted in all departments of the University Library as evidence of the holder's privilege to borrow books during the period which it specifies. The requirement of the card has been accepted by the students generally as a proper legitimation, and its use has been wholly satisfactory as a matter of Library administration.

The regulations governing seminar permits to graduate students were revised during the year to allow the holder of such permit direct access to any of the several seminar rooms while confining his use in general, as before, to the section containing his subject of major interest. The new regulation was more than ever made necessary by the frequent separation

of related subjects brought about by the overcrowded condition of the shelves, which is the state of affairs in the seminar rooms as it is elsewhere in almost the entire Library building. Room 306, containing General Literature, 301, containing Political Science and American History, and 113, containing Natural Sciences, are particularly crowded and relief must soon be had to make these important collections readily available. The release of Room 422, for a number of years occupied by the National Committee on Prisons, for seminar and stack purposes will help to better this condition in certain directions, but more room for books will be insistently needed in the near future to provide for the rapid and steady growth of the Library.

In order more effectually to protect the books on the open shelves of the General Reading Room, where a deplorable loss has occurred, two of the three openings into the surrounding corridor have again been closed and only a single entrance and exit has been retained. The new condition admits of a much closer supervision of entering and departing readers and its intended effects were almost immediately visible. The greatest physical defect in the Library building at the present time is the lack of a coat room where student belongings could be properly checked. Bags and valises are not allowed by regulation in the General Reading Room or in the seminar rooms, but there is no place in which to deposit them. Losses of Library books not only occur, but many cases have been reported during the year and previously of stolen overcoats, umbrellas, and other property belonging to readers who have placed them in any vacant place available. The Library, of course, cannot be responsible for personal property, but the recurrence of these losses emphasizes the need of an efficient checking system which could readily be installed in the large room in the basement immediately adjoining the post-office. The Acting Librarian recalls no other instance of a large library of any kind where such facilities are not provided.

Conditions concerning certain of the libraries in buildings on the University grounds other than the Library building are elsewhere referred to in this report. The various departmental

libraries in their present and prospective growth present a problem of increasing importance to the Library itself as well as to the University. Under the circumstances at hand, as they have often been reviewed, the Library has been obliged to adopt as a principle the development of departmental libraries. This had to follow by reason of the nature of the main building itself, no less than through the needs of instruction. There is no place in the Library building for any general reserve system, which means both shelving enough for many copies of many books and seats enough for the readers who desire to use them, and unless the book required for use is reasonably near the lecture room or laboratory, there is an inconvenience and a waste of time in securing it. It is very obvious that the multiplication of departmental libraries means a duplication of increasing proportions in the use of room space, of physical equipment of every kind, of books and of personal service. There are undoubtedly certain obvious advantages in the decentralization indicated by the separate department libraries, but the acute lack of room throughout the buildings of the University for the required purposes of instruction and the budget expenditure involved is so great that the problem should seriously be taken in hand. A policy of local centralization, if the term can be used, would seem to be the remedy indicated. One large room in each building—rooms that connect or alcoves that separate can readily preserve the distinction of subjects with a unity of supervision—would decentralize sufficiently for convenience of use and centralize sufficiently for effective administration. The single reading room of the building in this case would be provided with the encyclopedias, dictionaries, atlases and general reference books in a far less number than is necessary under the present system of many rooms. The expense of administering a single library, as this would be, instead of a number scattered throughout a building, is apparent and the expense of maintenance is continually increasing. At the present time there are on the various floors of Schermerhorn Hall five departmental libraries of varying sizes. In Philosophy Hall there are also five. In each instance there should be as a reasonable provision

by the University a single library and reading room, which properly equipped with books and service would abundantly fulfill both departmental and student purposes.

The usual statistics for the year under review are appended at the end of this report.

The position of Librarian of the Avery Library, left vacant by the resignation of Professor Crawford at the end of the preceding academic year, was filled by the appointment at the beginning of the Spring Session of Mr. William B. Dinsmoor. Mr. Dinsmoor was graduated from Harvard University in 1906, with the degree of S.B. in Architecture. The following year he held at Harvard a resident fellowship in architecture and served as assistant in fine arts. In 1908, he went to Athens as Carnegie Fellow, which appointment he held for three years. For seven years, he has been Architect of the American School at Athens and has done some notable work in cooperation with the Greek government in the restoration of ancient buildings. He is the author of many published articles on architectural and archaeological subjects. His equipment as architect and archaeologist makes his appointment as Avery Librarian a peculiarly fitting one. On March 1st, Miss Mary A. Cook resigned the librarianship of the School of Journalism to accept the position of librarian of the Peking Medical College, and Mrs. Alice M. Hitchcock, who had formerly been in the reference department of the General Library, was appointed in her place. The increase in the remuneration of the entire Library staff, that took place, as elsewhere in the University, at the beginning of the calendar year, was not only gratefully received by its recipients as a means to meet in some measure the increased cost of living, but it stabilized administrative conditions in bringing with it a feeling of personal security and an added esprit de corps.

With the reopening of the book trade with the enemy countries and the resumption of business under more normal conditions with the Allies, the opportunities for purchase and exchange of books, more or less in abeyance since the beginning of the War, have, in most instances, assumed their usual aspects. There has been, as is



natural, a decided increase in the price of books owing to the rise in the cost of material and labor in all countries, but this has been largely counterbalanced in the case of foreign books by the depreciated values of the currency of most European nations. The procedure was early adopted to require all bills to be rendered in the currency of the country from which they proceeded, and payment in every instance has been made at the rate of exchange of the date of settlement. The muddle into which the receipt of German and Austrian periodicals was involved by the War, and which at one time seemed hopeless, is slowly untangling itself, and ultimately will be cleared up in the case of most continuations. Shipments of foreign dissertations have been made for the first time in two years, and the Smithsonian Institution, acting for American universities, has resumed its exchange procedure except for the enemy countries. All of our regular exchanges with foreign libraries and universities, with the exception of German and Austrian, and including dissertations for 1917 and 1918, have been sent out through this agency. In return, we have received large shipments from France, Switzerland and the Scandinavian countries. The statistics at the end of the report show the number of volumes acquired during the year.

The most notable gifts to the Library were as follows:  
from President Butler 290 volumes, 61 pamphlets; from  
Provost Carpenter 110 volumes, 158 pamphlets;  
Gifts from Professor D. W. Johnson 125 pieces, books and  
pamphlets from the Paris Peace Conference; from the Columbia University Press 45 volumes; from Mr. Stephen G. Williams, '81, 360 volumes; from Miss Julia Chester Wells 103 volumes; from Mr. Leonard F. Fuld, '03, 310 periodicals; from Messrs. Harcourt, Brace and Howe 12 volumes of their publications; from Srta. Josefina Martinez de Ferrari (Santiago de Chile) 12 volumes, comprising the complete works of Marcial Martinez; from Mrs. Isaac N. Seligman 3 volumes of the "Journals of Washington Irving;" from Mr. William C. Lester 2 volumes, Yriate's "Florence" and "Venice;" from Montgomery Schuyler a Siamese Pali Ms.; from the L. E. Waterman Co. a set of valuable photographs of the delegates to the

Paris Peace Conference. From Mrs. Marie F. Struss was gratefully received 38 volumes as a memorial of her son William E. Struss of the Class of '05, School of Engineering. From the estate of Professor William Addison Hervey came by bequest 1,134 volumes and 40 pamphlets. From Mrs. Calvin Thomas were received as a memorial of her husband, Professor Calvin Thomas, 1,200 volumes of his working library. A number of gifts came from foreign governments: from the Ministry of Public Instruction, Paris, the "Atlas archéologique de la Tunisie;" from the Ministry of Exterior Relations, Brazil, 2 volumes, "The New Brazil" and "Frontiers of Brazil and French Guiana;" from the Department of Naval Service, Ottawa, 10 parts, as issued, of the Canadian Arctic Expedition Reports; from the Surveyor General of Egypt 7 maps and 3 volumes; from the General Government of Madagascar "Le Guide annuaire de Madagascar," 1912-1919, and "Collection du Bulletin Economique," 1901-1915. From Professor Robert H. Montgomery was received the sum of \$500 for the library on accounting in the School of Business; from the Rev. Acton Griscom, '13, the sum of \$25 for the purchase of books; from Mrs. Isoline F. Griffeau \$5 "for the Italian Library."

The General Library distributed, as usual, pamphlets, doctoral dissertations, and various volumes not desired for preservation, among the following institutions:

|  |               |
|--|---------------|
| Union Theological Seminary, Jewish Theologi-               | Distributions |
| cal Seminary, American Museum of Natural History, His-     |               |
| panic Museum, New York Public Library, New York Botani-    |               |
| cal Garden, and the Engineering Societies Library. Thirty- |               |
| seven mail sacks containing duplicates of United States    |               |
| Government documents were returned to the Superintendent   |               |
| of Documents, Washington.                                  |               |

By authorization of the Trustees of the University, twelve shares of stock of the Publication Fund of the New York Historical Society, that came to the University in the bequest of Stephen Whitney Phoenix and carry with them annually twelve copies of the publication of the Society, were returned to the New York Historical Society, together with an accumulation of 300 volumes of the publication in question. The

Library still retains two shares of the Publication Fund and accordingly receives annually two copies of the Society's "Collections."

Under the system of inter-library loans, 250 volumes were borrowed from 20 libraries for the use of officers and students and about the same number from the New York Public Library. The number of books loaned was 350 volumes to 60 libraries. Special thanks are due to the libraries of Congress, of Harvard University, and of Yale University for valuable and courteous assistance.

In addition to the current accessions by purchase, gift and exchange, there have been catalogued among others during the year the collection, consisting largely of German books, bequeathed by Professor Hervey, which have been shelved in the departmental library in Hamilton Hall; the volumes from the library of Professor Thomas and the Tombo Memorial Library in part; and a large collection of American plays given to the Dramatic Museum by Professor Brander Matthews. In the general catalogue, the work of recataloguing Greek authors has been completed for about 1,400 titles. Latin dissertations to the number of 700 have also been recatalogued. About 180 titles, comprising the material in the Library in the Indian languages of North, South and Central America, have been reclassified and recatalogued. The art and Avery Library titles in the general catalogue have been rearranged, 895 titles recatalogued, and 5,752 small typewritten cards replaced by large printed cards. Besides the books and pamphlets bound and repaired, outside and in the building, as recorded elsewhere, call numbers were gilded or affixed within the building on the backs of 36,256 volumes. Of these 11,190 volumes were reclassified books already in the Library. One hundred and forty-four maps were mounted and 40 portfolios were made. The number of pamphlets bound within the building was 7,365, at an average cost of 16½ cents per volume, and 14 volumes were bound as regular books. An interesting and valuable collection, the gift of Mr. John B. Pine, of old newspapers containing references to Columbia: the *Pennsylvania*

*Gazette*, May 26, 1773; the *Pennsylvania Packet and Daily Advertiser*, October 8, 1785, May 6, 1786, April 14, 1788; the *General Advertiser*, May 12, 1794; and the *Herald, a Gazette for the Country*, January 30, 1796, were bound in one volume. A collection of miscellaneous clippings and memoranda relating principally to Alexander Hamilton and to Lafayette, the gift to the Library of the late Josiah C. Pumpelly, were bound in three volumes. A miscellaneous collection of old letters whose writers had been connected with Columbia were taken from various places in the Library and bound in three volumes. Material and manuscript, from the office of the Secretary of the University, was bound in three volumes.

For a number of years the facilities of the College Study have been wholly inadequate to meet the increasing demands for service. With the great increase in the College Study number of students registered in the College has come an increase in the circulation of books, and the broadening scope of the College courses, which have included more titles and more copies than ever before, has greatly added to the number of reserve books constantly required for use. The Contemporary Civilization reading room on another floor of the building has relieved to a certain extent and for this single course the problem of seating capacity, but has not been at all sufficient to take care of the overflow that has regularly occurred at certain hours of the day. In 1914-15, in most respects a normal year, the total use of books in the College Study was 69,651; in 1919-20, the year under review, the total was 106,122. The problem of the provision of adequate shelving capacity for books and seating capacity for college students in their own building, has been finally met by the assignment of 301 Hamilton Hall, now used as a lecture room, as additional quarters for the Study. The new room, which will be ready for occupancy at the beginning of the next academic year, will immediately relieve the present congested conditions, and will provide, at least for a number of years, the requisite library facilities for Columbia College students. The plan proposed includes the disuse of the Contemporary Civilization reading room, and the inclusion of the special collection

which it contains as an integral part of the Study library, so that all students will have in convenient proximity the books required for all College courses.

The problem of space in the Chemistry Reading Room has become a crucial one that will need to be solved in the near future to care for the proper availability of its material to instructors and students.

Two years ago, when the library was moved into its present quarters, it was adequately housed, but with the rapid expansion as matters of study and research of the subject with which it is concerned, both the reading and the shelving space are far too restricted to meet the demands constantly made upon them.

The lack of adequate space and proper service in the present Physics Reading Room has been previously referred to in these reports. A larger room, which will be ready for occupancy at the beginning of the Summer Session, has been assigned to the department for its library and reading room and a librarian has been appointed.

The collection of works in the Chinese Language now numbers 29,431 fascicles, all of which are catalogued and classified, and with the exception of about 1,500 all are bound. The catalogue cards, arranged by subjects and titles, are filed in the general catalogue under the heading of Chinese Language, and the books are placed on the shelves in conformity with the shelf list. One set of catalogue cards was made by Chinese students employed during the year, and an additional copy of each card was photostated. During the year, there were 5,817 calls for books in the Chinese language by Chinese and Japanese students.

When the Law School was housed in the Main Library building of the University, the law collection was distinctly a law students' library consisting of a group of books considered adequate for a law school not coordinated with a university. Annual expenditures were limited to keeping the most recent sets of American and

British reports and periodicals up to date, and to the purchase of recent text-books. Outside of that field, growth was dependent on sporadic gifts of books and money. Many legal publications, including those on foreign law, were shelved in the General Library, where they were distributed by subjects. The legal literature owned by the University under this arrangement, accordingly, was in no sense unified either in location or in any catalogue.

With the installation of the Law School in Kent Hall, it was decided to bring together in one place the whole legal resources of the University, including foreign and international law and material, classified by subject, and a new card catalogue was begun. Several years were devoted to checking up the legal material in the general catalogue and the transfer of this material to the Law Library, the preparation of records of the unified collection, and the filling in of gaps in the most essential sets. Beginning with the foundation of the present Law School in 1858, it took fifty years to build up a library of 30,000 volumes. Largely by the consolidation of isolated collections, it nearly doubled in size in the next six years, and at the beginning of 1914 the new library contained 55,609 volumes. During the last five years the library has increased in size about thirty per cent. The work of consolidating the existing collections is now virtually complete and from now on growth must depend largely upon purchases.

Only within recent years have conditions been favorable for a steady, well-considered growth of the Law Library. In 1918, an advisory committee of the Law Faculty was appointed by the Dean of the Law School to cooperate with the Librarian of the University in the development of the library and a preliminary report was submitted on the "Financial needs of the Law School" which contained a carefully considered policy of immediate development. At the beginning of the present year, a further report was submitted containing a comprehensive study of the Law Library with special regard to a continuous policy for the future. Specific recommendations of the committee were "that it be the settled policy to develop the Law Library as a research library for scholars in law, as

well as a working library for students," and "that a program of purchases be approved seeking completeness for research purposes" in Anglo-American law books, in international law, and in foreign law. The report was subsequently submitted to the Committee on Education of the Trustees who cordially agreed "to support the plan for the steady development of the Library along the lines indicated," and expressed its especial interest "in the proposal to add collections in special fields, and particularly to strengthen the collections in Latin-American law." It would doubtless be difficult, as has been pointed out by the Law Librarian, to over-emphasize the position of the library in a scheme of legal education, for what the faculty is to teaching, the library is to study and research. With the careful carrying out of the policy adopted, the Law School will have in time to come an admirable library equipment for professional study, and the University a center of recourse for the materials of foreign law and comparative jurisprudence in definite fields of legal research.

During the year, 4,184 volumes have been added to the Law Library. Of this number 3,235 volumes were acquired by purchase, 525 by gift, 182 by exchange, 205 by binding, and 37 by transfer from the General Library. Efforts have been concentrated on the completion of the collections in British and British Colonial material, and American Session laws. Important additions have also been made to the collection in international law, and a special effort has been made to acquire documents, treatises, reports, and legislation relating to the European War, to the League of Nations and international cooperation. Volumes catalogued during the year were 8,445, and 9,224 new cards were added to the catalogue, which is now extensively used not only by students of the Law School, but by graduate students in political science, economics, history, and international law.

The Law Librarian gave instruction, as usual, on legal bibliography and the use of law books in both the Winter and the Spring Session. The course, which is voluntary on the part of the Law Librarian and carries no academic credit, was attended as a whole or in part by 186 different students.

A total of 2,079 volumes were added to the Medical Library during the year; 220 by purchase, 1,540 by gift, 262 by exchange, and 57 by binding. This is exclusive of reprints and pamphlets, journal numbers, and dissertations. The main reference library now numbers 13,000 volumes and 14,000 pamphlets. It is increasingly used; the readers for the year numbered 29,403. In addition to the general collection in the main library, there are in the departmental libraries of Anatomy, Biological Chemistry, Pathology, Pharmacology, Physiology, and Surgery at the College of Physicians and Surgeons no less than 23,000 volumes and 29,000 pamphlets on special subjects. These collections are in many cases practically inaccessible to the teaching staff of other departments of the School, and no general catalogue exists to make them available. The present arrangement, it would appear, is not one to perpetuate as best serving the purposes of students and instructors, who should have, as elsewhere in the University, the liberal use of books and journals bearing upon their particular subjects of study and research. To bring about a wider and better service and a greater economy of use, the Medical Librarian should have an administrative control, as librarian, over such of the departmental libraries as belong to the University, and a union catalogue of all library resources of the School should be made and kept for ready consultation in the main reference library.

The most important gifts of the year to the Medical Library were from Professor Samuel W. Lambert 241 volumes, 414 journal numbers, 2,478 reprints; from Professor Russell Burton-Opitz 4 volumes, 175 journal numbers, 101 reprints; from Professor Francis Huber 57 volumes, 13 journal numbers, 52 reprints; from Dr. Henry E. Hale 38 volumes, 168 journal numbers; from Dr. A. M. Jacobus 51 volumes, 152 reprints; from Dr. Frederick Kinch 221 journal numbers; from Dr. Beverly Robinson 710 volumes; from Sir William Osler 136 reprints. From the New York Academy of Medicine were received 244 bound and 180 unbound journal numbers. The Medical Library also received its usual annual gifts of journals from the Borden Condensed Milk Co., the Purdue Frederick Co., and the M. J. Breitenbach Co., a total of 1,453 numbers.



The accessions to the Barnard College Library during the year were 895, making the total number of volumes in the Barnard College library about 14,000. The total number of readers for the academic year was 50,104, and the total circulation of books 84,354.

The accessions to the libraries of Teachers College were 3,470 volumes. The total number of volumes loaned was 124,839; the total number of reference books used in the libraries was 319,725.

The accessions to the library of the College of Pharmacy were 82 volumes. The total use of books for the year was 6,347. The Pharmacy Library is used not only by instructors and students of the School, but increasingly as a reference library by pharmacists of the city and vicinity.

The university Bibliography for 1919, compiled by the Reference Librarian, was issued as a pamphlet of 59 pages, containing 957 titles. The list of essays submitted for the degrees of Master of Arts and Master of Laws in 1919, compiled by the Supervisor of the Catalogue Department, was printed as a pamphlet of 27 pages.

On Alumni Day, as usual, an exhibition was held in the Columbiana Room of the Library consisting of the publications issued by the students of the University, and recent volumes published by the Columbia University Press. Four exhibitions were held in the Avery Library during the year: in July-August, French war posters, presented by Miss G. Moehle; in February, Work by Alumni of the School of Architecture; in March, the Annual Exhibition of the American Bookplate Society; in June, Work submitted in the School of Architecture in the McKim Fellowship competition and other work by the students of the School.

There is the usual need of much additional shelving in various parts of the Library to relieve the overcrowded conditions that arise from the constant growth of the collections. Room 422, released for library purposes as already indicated, will immediately need to be entirely shelved to make it available, and more shelf

# REPORT OF THE ACTING LIBRARIAN 317

space should at once be provided in Rooms 113, 301 and 306, whose overcrowded condition has been previously mentioned.

The crucial and immediate need, however, of the Library is for greater reading-room facilities, particularly for Extension students who have registered in the University and use the General Reading Room in continually increasing numbers. The needs of most other students of the University are fairly well met, except for general reference purposes, by the various libraries provided for their use. It is, however, physically impossible at the present time to provide the space legitimately required by Extension students for reserve books and seats for readers in the General Reading Room, and until such facilities are available elsewhere the Library cannot give the satisfactory service that it greatly desires to give, either to them, or to the other students of the University who use the reading room as a library of reference.

In conclusion I would submit the following statistics:

## *Accessions:*

Gifts: 5,747 volumes, 3,253 pamphlets, 78 maps

### *Exchanges:*

|  |        |
|--|--------|
| Pieces received (Dissertations 474; others 73) . . . . . | 547    |
| Pieces exchanged . . . . .                               | 2,530  |
| Orders sent out . . . . .                                | 13,312 |

### *Volumes added:*

|   |        |
|---|--------|
| General Library and Departments . . . . . | 22,694 |
| School of Law . . . . .                   | 4,184  |
| School of Medicine . . . . .              | 2,079  |
| Barnard College . . . . .                 | 895    |
| Teachers College . . . . .                | 3,470  |
| College of Pharmacy . . . . .             | 82     |
| Total . . . . .                           | 33,404 |

Total of volumes in Library, June 30, 1919 . . . . . 761,448

Estimated unbound pamphlets in Library . . . . . 50,000

## *Cataloguing:*

### *Cards made and filed in General Library and Departments:*

|                                |         |
|--------------------------------|---------|
| New cards . . . . .            | 59,521  |
| Cards replaced . . . . .       | 15,902  |
| Depository catalogue . . . . . | 41,110  |
| Total . . . . .                | 116,533 |

## Printed cards for Depository catalogue:

|                                 |        |
|---------------------------------|--------|
| Library of Congress . . . . .   | 29,964 |
| Harvard University . . . . .    | 4,160  |
| University of Chicago . . . . . | 2,391  |
| John Crerar Library . . . . .   | 4,595  |

|                 |        |
|-----------------|--------|
| Total . . . . . | 41,110 |
|-----------------|--------|

*Binding:*

|   |       |
|---|-------|
| Books and pamphlets bound in building . . . . . | 9,365 |
| Volumes repaired in building . . . . .          | 2,724 |

|                 |        |
|-----------------|--------|
| Total . . . . . | 12,089 |
|-----------------|--------|

|                                   |       |
|-----------------------------------|-------|
| Volumes bound outside . . . . .   | 5,234 |
| Volumes rebound outside . . . . . | 3,033 |

|                 |       |
|-----------------|-------|
| Total . . . . . | 8,267 |
|-----------------|-------|

*Circulation:*

|   |           |
|---|-----------|
| Volumes supplied from Loan Desk for outside use (including 24,547 renewals) . . . . . | 170,390   |
| For use in building . . . . .   | 49,643    |
| Loaned from reading rooms for outside use . . . . .                                   | 301,522   |
| Used in reading rooms . . . . .   | 544,832   |
| Total recorded use of libraries . . . . .   | 1,066,387 |

Respectfully submitted,

WM. H. CARPENTER,  
*Acting Librarian*

*June 30, 1920*

# REPORT

*To the Trustees of  
Columbia University in the City of New York*

The Treasurer makes the following report of the financial affairs of the Corporation for the year ended June 30, 1920.



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# INCOME AND EXPENSE ACCOUNT (GENERAL FUNDS) FOR THE YEAR ENDED JUNE 30, 1920

## INCOME FROM ALL SOURCES

|  |                |                |
|--|----------------|----------------|
| From Students:   |                |                |
| Fees (See Page 324) .....  | \$1,846,113.37 |                |
| Other Income (See Page 324) .....                                  | 36,983.82      | \$1,883,097.19 |
| <hr/>  |                |                |
| From Endowment:  |                |                |
| Rents (See Page 325) .....   | 734,986.65     |                |
| Income from Investments in Personal Property (See P. 325) .....    | 101,845.31     |                |
| Investment of Redemption Fund (See Page 325) .....                 | 39,542.73      |                |
| Transferred from Income of Special Funds (See P. 325) .....        | 688,862.15     | 1,565,236.84   |
| <hr/>  |                |                |
| From Gifts and Receipts for Designated Purposes (See P. 325) ..... | 108,370.98     |                |
| From Allied Corporations for Salaries, etc. (See Page 325) .....   | 580,389.41     |                |
| From Miscellaneous Sources (See Page 325) .....                    | 159,865.24     |                |
| <hr/>  |                |                |
| TOTAL INCOME (See Page 325) .....                                  |                | \$4,296,959.66 |

## EXPENSES

|  |                |              |
|--|----------------|--------------|
| Educational Administration and Instruction (See Page 341) .....  | \$3,158,100.19 |              |
| Buildings and Grounds—Maintenance (See Page 348) .....   | 493,856.90     |              |
| Library (See Page 346) .....   | 172,817.32     |              |
| Business Administration of the Corporation:  |                |              |
| Salaries and Office Expenses (See Page 347) .....  | 79,497.01      |              |
| Insurance on Academic Buildings (See Page 347) .....   | 18,629.65      | 98,126.66    |
| <hr/>  |                |              |
| Annuities (See Page 348) .....   | 43,860.75      |              |
| Interest on Corporate Debt, Notes, etc. (See Page 349) ..  | 158,606.91     |              |
| Total Expenses exclusive of provision for Redemption Fund .....  |                | 4,125,368.73 |
| <hr/>  |                |              |
| Balance, being Excess of Income over Expenses before providing for Redemption Fund .....   |                | 171,590.93   |
| Deduct: Amount transferred to Redemption Fund, for retirement of 4% Mortgage Bonds .....   |                | 100,000.00   |
| <hr/>  |                |              |
| Balance, being Excess of Income over Expenses for Maintenance for fiscal year ended June 30th, 1920, after providing for Redemption Fund ..... |                | \$71,590.93  |
| <hr/>  |                |              |



## INCOME OF THE CORPORATION, YEAR ENDING JUNE 30, 1920

## FROM STUDENTS:

## Fees:

## Morningside:

|                                     |              |              |
|-------------------------------------|--------------|--------------|
| University.....                     | \$ 38,637.90 |              |
| Late Registration.....              | 3,440.00     |              |
| Tuition.....                        | 558,400.86   |              |
| Graduation.....                     | 29,393.33    |              |
| Entrance and Special Examinations.. | 7,061.00     |              |
| Locker.....                         | 17.00        |              |
| Rooms in Residence Halls.....       | 177,312.72   | \$814,262.81 |

## Medical School:

|                        |           |            |
|------------------------|-----------|------------|
| University.....        | 4,465.00  |            |
| Late Registration..... | 115.00    |            |
| Tuition.....           | 96,097.20 |            |
| Graduation.....        | 2,915.00  |            |
| Examinations.....      | 300.00    | 103,892.20 |

## Summer Session:

|                       |              |            |
|-----------------------|--------------|------------|
| Morningside.....      | \$378,962.16 |            |
| Less Teachers College |              |            |
| Proportion.....       | 173,341.50   | 205,620.66 |

|                     |          |  |
|---------------------|----------|--|
| Medical School..... | 2,978.00 |  |
|---------------------|----------|--|

## Camp Columbia:

|                                 |          |            |
|---------------------------------|----------|------------|
| Summer Course in Surveying..... | 1,649.00 |            |
| Excursions.....                 | 474.00   | 210,721.66 |

|                         |            |  |
|-------------------------|------------|--|
| Extension Teaching..... | 637,615.70 |  |
|-------------------------|------------|--|

|                                    |          |  |
|------------------------------------|----------|--|
| Extension Teaching Home Study..... | 6,604.95 |  |
|------------------------------------|----------|--|

|                         |           |  |
|-------------------------|-----------|--|
| School of Business..... | 41,702.20 |  |
|-------------------------|-----------|--|

|                                     |           |            |                |
|-------------------------------------|-----------|------------|----------------|
| Institute of Arts and Sciences..... | 31,313.85 | 717,236.70 | \$1,846,113.37 |
|-------------------------------------|-----------|------------|----------------|

## Other Charges:

## Morningside:

|   |           |           |
|---|-----------|-----------|
| Supplies and Materials Furnished to Students..... | 36,295.01 |           |
| Electric Light Breakage and Keys...               | 459.70    | 36,754.71 |

## Medical School:

|   |  |        |           |
|---|--|--------|-----------|
| Supplies and Materials Furnished to Students..... |  | 229.11 | 36,983.82 |
|---|--|--------|-----------|

## FROM ENDOWMENT:

## Rents:

|                                       |            |
|---------------------------------------|------------|
| Upper and Lower Estates (1919-1920) . | 657,281.30 |
| 620 Fifth Avenue.....                 | 16,152.03  |
| 618 Fifth Avenue.....                 | 20,588.37  |
| 2 West 50th Street.....               | 6,844.72   |
| 6 West 51st Street.....               | 2,653.86   |
| 83 Barclay Street.....                | 1,780.25   |
| 72 Murray Street.....                 | 1,932.20   |
| 407 West 117th Street.....            | 871.02     |

|                      |  |                |
|----------------------|--|----------------|
| Carried forward..... |  | \$1,883,097.19 |
|----------------------|--|----------------|

# REPORT OF THE TREASURER

325

|  |            |            |                       |
|--|------------|------------|-----------------------|
| Brought forward.....                                     |            |            | \$1,883,097.19        |
| 421 West 117th Street.....                               | 896.32     |            |                       |
| 431 West 117th Street.....                               | 1,132.60   |            |                       |
| 433 West 117th Street.....                               | 968.30     |            |                       |
| 41 West 47th Street.....                                 | 980.80     |            |                       |
| 91-93 Ninth Avenue.....                                  | 1,579.84   |            |                       |
| Lenox Avenue and 130th Street.....                       | 4,112.46   |            |                       |
| 712 Madison Avenue.....                                  | 2,090.74   |            |                       |
| Claremont Avenue Properties.....                         | 11,913.51  |            |                       |
| 18 East 16th Street.....                                 | 3,208.33   | 734,986.65 |                       |
| <b>INCOME FROM INVESTMENTS IN<br/>PERSONAL PROPERTY:</b> |            |            |                       |
| Interest:  |            |            |                       |
| On General Investments.....                              | 54,264.49  |            |                       |
| On Deposits of General Funds.....                        | 4,744.31   |            |                       |
| On Notes Receivable.....                                 | 1,681.06   |            |                       |
| On Rents.....  | 1,587.21   |            |                       |
| On Gifts and Receipts.....                               | 1,415.29   |            |                       |
| On 503-511 Broadway, etc.....                            | 35,267.55  |            |                       |
| Profit on Sale of General Investments..                  | 2,885.40   | 101,845.31 |                       |
| Investment of Redemption Fund.....                       |            | 39,542.73  | 876,374.69            |
| FROM SPECIAL FUNDS.....                                  |            | 688,862.15 |                       |
| FROM GIFTS AND RECEIPTS FOR<br>DESIGNATED PURPOSES.....  |            | 108,370.98 |                       |
| <b>FROM PAYMENTS BY ALLIED COR-<br/>PORATIONS:</b>       |            |            |                       |
| For Salaries and Annuities:                              |            |            |                       |
| Teachers College.....                                    | 296,646.68 |            |                       |
| Barnard College.....                                     | 197,850.00 |            |                       |
| Carnegie Foundation.....                                 | 58,097.26  |            |                       |
| Harkness Fund.....                                       | 26,250.02  |            |                       |
| Vanderbilt Clinic.....                                   | 1,545.45   | 580,389.41 | 1,377,622.54          |
| <b>FROM MISCELLANEOUS SOURCES:</b>                       |            |            |                       |
| Barnard College:   |            |            |                       |
| Electric Current.....                                    | 921.63     |            |                       |
| Steam, Heat and Power... 18,037.00                       |            | 18,958.63  |                       |
| Annual Catalogue.....                                    | 19.75      |            |                       |
| Post Office.....   | 491.67     |            |                       |
| Income from Tennis Courts.....                           | 532.70     |            |                       |
| Telephone Service.....                                   | 15,171.27  |            |                       |
| Consents.....  | 1,479.18   |            |                       |
| Liberty Loan Expense a/c.....                            | 763.43     |            |                       |
| Law School Gift.....                                     | 2.00       |            |                       |
| Columbia University Printing Office.....                 | 13,207.53  |            |                       |
| U. S. Navy Department.....                               | 200.00     |            |                       |
| Departmental Receipts.....                               | 122.04     |            |                       |
| Commons.....   | 107,704.17 |            |                       |
| Sundries.....  | 1,212.87   |            | 159,865.24            |
|  |            |            | <u>\$4,296,959.66</u> |

## EXPENSES—EDUCATIONAL ADMINISTRATION AND INSTRUCTION

|  | Expenditures | Departmental Totals | From General Income | From Income of Special Funds | From Gifts and Receipts for Designated Purposes |
|--|--------------|---------------------|---------------------|------------------------------|---|
| <b>EDUCATIONAL ADMINISTRATION</b>                |              |                     |                     |                              |   |
| Salaries.....                                    | \$167,209.92 |                     | \$147,159.92        | \$1,600.00                   | \$18,450.00                                     |
| Bureau of Supplies.....                          | 15,682.54    |                     | 15,682.54           |                              |   |
| Diplomas.....                                    | 3,026.00     |                     | 3,026.00            |                              |   |
| Lectures.....                                    | 16.25        |                     | 16.25               |                              |   |
| International Fund for Americanization.....      | 1,000.00     |                     | 1,000.00            |                              |   |
| Conduct of Examinations.....                     | 2,024.39     |                     | 2,024.39            |                              |   |
| Women's War Work Committee.....                  | 140.21       |                     |                     |                              | 140.21  |
| President's Emergency Fund.....                  | 6,248.34     |                     | 6,248.34            |                              |   |
| Columbia Service Bureau in Paris.....            | 3,067.05     |                     |                     |                              | 3,067.05  |
| President's Fund.....                            | 9,750.00     |                     | 9,750.00            |                              |   |
| Printing.....                                    | 25,000.00    |                     | 24,500.00           | 500.00                       |   |
| Public Ceremonies.....                           | 2,700.00     |                     | 2,700.00            |                              |   |
| University Quarterly.....                        | 1,250.00     |                     | 1,250.00            |                              |   |
| Alumni Records.....                              | 2,500.00     |                     | 2,500.00            |                              |   |
| Fund for Research.....                           | 326.52       |                     |                     |                              | 326.52  |
| Office of Appointments:                          |              |                     |                     |                              |   |
| Postage, Printing and Miscellaneous.....         | 3,429.67     |                     | 3,339.52            | 90.15                        |   |
| Committee on Undergraduate Admissions:           |              |                     |                     |                              |   |
| Preparation and Rating of Examination Books..... | 1,909.00     |                     | 1,909.00            |                              |   |
| Office Expenses.....                             | 6,085.94     |                     | 5,994.27            | 91.67                        |   |
| University Medical Officer:                      |              |                     |                     |                              |   |
| Supplies.....                                    | 1,500.00     |                     | 1,500.00            |                              |   |
| University Commons.....                          | 97,650.61    |                     | 97,650.61           |                              |   |
| American School in Jerusalem.....                | 100.00       |                     |                     |                              | 100.00  |
|  |              | \$350,616.44        |                     |                              |   |

|  |           |           |           |          |       |           |
|--|-----------|-----------|-----------|----------|-------|-----------|
| <b>COLUMBIA HOUSE</b>                              |           |           |           |          |       |           |
| Salaries.....                                      | 400.00    | .....     | 400.00    | .....    | ..... | .....     |
| Maintenance.....                                   | 1,192.37  | .....     | 86.05     | .....    | ..... | 1,106.32  |
|  |           | 1,592.37  |           |          |       |           |
| <b>MAISON FRANCAISE</b>                            |           |           |           |          |       |           |
| Maintenance.....                                   | 2,455.82  | .....     | .....     | .....    | ..... | 2,455.82  |
| Bulletin.....                                      | 17.98     | .....     | .....     | .....    | ..... | 17.98     |
|  |           | 2,473.80  |           |          |       |           |
| <b>ANTHROPOLOGY</b>                                |           |           |           |          |       |           |
| Salaries.....                                      | 8,850.07  | .....     | 4,650.07  | 3,200.00 | ..... | 1,000.00  |
| Departmental Appropriation.....                    | 50.00     | .....     | .....     | 50.00    | ..... | .....     |
| Research on the Indians of British Columbia.....   | 613.44    | .....     | .....     | .....    | ..... | 613.44    |
| International Journal of American Linguistics..... | 6.57      | .....     | .....     | 6.57     | ..... | .....     |
|  |           | 9,520.08  |           |          |       |           |
| <b>ARCHITECTURE</b>                                |           |           |           |          |       |           |
| Salaries.....                                      | 25,513.16 | .....     | 25,513.16 | .....    | ..... | .....     |
| Departmental Appropriation.....                    | 845.00    | .....     | 845.00    | .....    | ..... | .....     |
| For Drawing and Modeling.....                      | 1,392.25  | .....     | 1,392.25  | .....    | ..... | .....     |
| Maintenance of Ateliers.....                       | 262.70    | .....     | 262.70    | .....    | ..... | .....     |
|  |           | 28,013.11 |           |          |       |           |
| <b>ASTRONOMY</b>                                   |           |           |           |          |       |           |
| Salaries.....                                      | 5,766.75  | .....     | 5,766.75  | .....    | ..... | .....     |
| Departmental Appropriation.....                    | 38.11     | .....     | 38.11     | .....    | ..... | .....     |
| Observatory: For Apparatus.....                    | 32.60     | .....     | 32.60     | .....    | ..... | .....     |
|  |           | 5,837.46  |           |          |       |           |
| <b>BOTANY</b>                                      |           |           |           |          |       |           |
| Salaries.....                                      | 24,340.03 | .....     | 12,440.03 | .....    | ..... | 11,900.00 |
| Departmental Appropriation.....                    | 1,200.00  | .....     | 1,200.00  | .....    | ..... | .....     |
| Gardener.....                                      | 800.00    | .....     | 800.00    | .....    | ..... | .....     |
|  |           | 26,340.03 |           |          |       |           |

|                                      | Expenditures | Departmental Totals | From General Income | From Income of Special Funds | From Gifts and Receipts for Designated Purposes |
|--------------------------------------|--------------|---------------------|---------------------|------------------------------|---|
| <b>CHEMICAL ENGINEERING</b>          |              |                     |                     |                              |   |
| Engineering Chemistry Salaries.....  | \$18,550.00  |                     | \$18,550.00         |                              |   |
| Laboratory Assistantships.....       | 300.00       |                     | 300.00              |                              |   |
| Laboratory Servants.....             | 2,500.00     |                     | 2,500.00            |                              |   |
| Necessary Equipment.....             | 343.00       |                     | 343.00              |                              |   |
| Laboratory Costs.....                | 2,189.00     |                     | 2,189.00            |                              |   |
| Research Equipment.....              | 859.77       |                     | 859.77              |                              |   |
| Special Lectures.....                | 500.00       |                     | 500.00              |                              |   |
| Chandler (C. F.) Fund.....           | 349.93       |                     |                     | \$337.93                     | \$12.00   |
| Special Equipment.....               | 1,563.50     |                     | 1,563.50            |                              |   |
|                                      |              | \$27,155.20         |                     |                              |   |
| <b>CHEMISTRY</b>                     |              |                     |                     |                              |   |
| General and Inorganic: Salaries..... | 39,108.30    |                     | 39,108.30           |                              |   |
| Organic: Salaries.....               | 10,066.64    |                     | 10,066.64           |                              |   |
| Physical: Salaries.....              | 4,500.00     |                     | 4,500.00            |                              |   |
| Analytical: Salaries.....            | 6,450.00     |                     | 6,450.00            |                              |   |
| Food: Salaries.....                  | 8,833.36     |                     | 7,700.00            |                              | 1,133.36  |
| Barnard: Salaries.....               | 10,050.00    |                     |                     |                              | 10,050.00                                       |
| Borden Research Fund.....            | 5,879.93     |                     |                     |                              | 5,879.93  |
| Laboratory Assistantships.....       | 975.00       |                     | 975.00              |                              |   |
| Laboratory Servants.....             | 3,612.00     |                     | 3,612.00            |                              |   |
| Equipment and Supplies.....          | 5,515.71     |                     | 5,515.71            |                              |   |
| Breakage and Supplies.....           | 49,325.27    |                     | 49,325.27           |                              |   |
| Laboratory Costs.....                | 21,800.00    |                     | 21,800.00           |                              |   |
|                                      |              | 166,116.21          |                     |                              |   |
| <b>CHINESE</b>                       |              |                     |                     |                              |   |
| Purchase of Books.....               |              | 3,051.62            |                     | 3,051.62                     |   |

|   |            |            |            |           |           |
|---|------------|------------|------------|-----------|-----------|
| <b>CIVIL ENGINEERING</b>                  |            |            |            |           |           |
| Salaries.....                             | 13,350.00  | .....      | 13,350.00  | .....     | .....     |
| Departmental Appropriation.....           | 742.17     | .....      | 742.17     | .....     | .....     |
| For Research.....                         | 1,083.90   | .....      | .....      | 1,083.90  | .....     |
| Testing Laboratory.....                   | 7,643.38   | .....      | .....      | .....     | 7,643.38  |
| Fire Testing Station.....                 | 963.77     | .....      | .....      | .....     | 963.77    |
|   |            | 23,783.22  |            |           |           |
| <b>CONTEMPORARY CIVILIZATION</b>          |            |            |            |           |           |
|   |            | 4,007.28   |            |           |           |
| <b>ECONOMICS</b>                          |            |            |            |           |           |
| Salaries.....                             | 48,520.00  | .....      | 37,670.00  | 200.00    | 10,650.00 |
| Departmental Appropriation.....           | 1,099.05   | .....      | 1,099.05   | .....     | .....     |
| Equipment.....                            | 221.68     | .....      | 221.68     | .....     | .....     |
|   |            | 49,840.73  |            |           |           |
| <b>ELECTRICAL ENGINEERING</b>             |            |            |            |           |           |
| Salaries.....                             | 20,800.00  | .....      | 20,800.00  | .....     | .....     |
| Departmental Appropriation.....           | 1,499.84   | .....      | 1,499.84   | .....     | .....     |
| New Equipment.....                        | 494.10     | .....      | 494.10     | .....     | .....     |
|   |            | 22,793.94  |            |           |           |
| <b>ENGINEERING DRAUGHTING</b>             |            |            |            |           |           |
| Salaries.....                             | 8,925.00   | .....      | 8,925.00   | .....     | .....     |
| Drawing Appropriation.....                | 888.50     | .....      | 888.50     | .....     | .....     |
|   |            | 9,813.50   |            |           |           |
| <b>ENGLISH AND COMPARATIVE LITERATURE</b> |            |            |            |           |           |
| Salaries.....                             | 100,801.00 | .....      | 68,594.76  | 4,906.24  | 27,300.00 |
| Departmental Appropriation.....           | 199.27     | .....      | 199.27     | .....     | .....     |
|   |            | 101,000.27 |            |           |           |
| <b>EXTENSION TEACHING</b>                 |            |            |            |           |           |
| Salaries.....                             | 11,000.00  | .....      | 11,000.00  | .....     | .....     |
| Administration and Instruction.....       | 436,972.68 | .....      | 419,411.42 | 17,000.00 | 561.26    |
| Agriculture.....                          | 1,648.50   | .....      | .....      | .....     | 1,648.50  |
| Institute of Arts and Sciences.....       | 27,771.49  | .....      | 27,771.49  | .....     | .....     |
|   |            | 477,392.67 |            |           |           |

|  | Expenditures | Departmental Totals | From General Income | From Income of Special Funds | From Gifts and Receipts for Designated Purposes |
|--|--------------|---------------------|---------------------|------------------------------|---|
| <b>GEOGRAPHY</b>                         |              |                     |                     |                              |   |
| Salaries.....                            | .....        | \$500.00            | \$500.00            | .....                        | .....   |
| <b>GEOLOGY</b>                           |              |                     |                     |                              |   |
| Salaries.....                            | \$30,687.10  | .....               | 19,962.10           | \$4,375.00                   | \$6,350.00                                      |
| Departmental Appropriation.....          | 1,000.00     | .....               | 1,000.00            | .....                        | .....   |
| Summer Course.....                       | 200.00       | .....               | 200.00              | .....                        | .....   |
| Crosby Collection of Lantern Slides..... | 48.50        | .....               | .....               | 48.50                        | .....   |
|  |              | 31,935.60           |                     |                              |   |
| <b>GERMANIC LANGUAGES</b>                |              |                     |                     |                              |   |
| Salaries.....                            | 21,200.00    | .....               | 12,912.50           | 1,437.50                     | 6,850.00  |
| Departmental Appropriation.....          | 41.53        | .....               | 41.53               | .....                        | .....   |
|  |              | 21,241.53           |                     |                              |   |
| <b>GREEK AND LATIN</b>                   |              |                     |                     |                              |   |
| Salaries.....                            | 38,900.00    | .....               | 24,350.00           | .....                        | 14,550.00                                       |
| Greek: American School at Athens.....    | 250.00       | .....               | 250.00              | .....                        | .....   |
| Latin: American School at Rome.....      | 250.00       | .....               | 250.00              | .....                        | .....   |
| Drieler Fund.....                        | 158.31       | .....               | .....               | 158.31                       | .....   |
| Departmental Appropriation.....          | 49.32        | .....               | 49.32               | .....                        | .....   |
| American School of Archaeology.....      | 100.00       | .....               | .....               | 100.00                       | .....   |
|  |              | 39,707.63           |                     |                              |   |
| <b>HISTORY</b>                           |              |                     |                     |                              |   |
| Salaries.....                            | 53,150.00    | .....               | 43,300.00           | .....                        | 9,850.00  |
| Departmental Appropriation.....          | 299.67       | .....               | 299.67              | .....                        | .....   |
|  |              | 53,449.67           |                     |                              |   |

## INDO-IRANIAN LANGUAGES

|                                 |          |          |          |        |        |
|---------------------------------|----------|----------|----------|--------|--------|
| Salaries.....                   | 7,087.50 | .....    | 5,912.50 | 675.00 | 500.00 |
| Departmental Appropriation..... | 50.00    | 7,137.50 | 50.00    | .....  | .....  |

## JOURNALISM

|                          |           |       |       |           |       |
|--------------------------|-----------|-------|-------|-----------|-------|
| Salaries.....            | 27,613.28 | ..... | ..... | 27,613.28 | ..... |
| Lectures.....            | 597.38    | ..... | ..... | 597.38    | ..... |
| Equipment.....           | 599.23    | ..... | ..... | 599.23    | ..... |
| Supplies.....            | 995.98    | ..... | ..... | 995.98    | ..... |
| Newspaper Clippings..... | 1,000.00  | ..... | ..... | 1,000.00  | ..... |
| Laboratory Costs.....    | 598.99    | ..... | ..... | 598.99    | ..... |
|                          | 31,404.86 | ..... | ..... | .....     | ..... |

## LAW SCHOOL

|   |           |       |           |           |          |
|---|-----------|-------|-----------|-----------|----------|
| Salaries.....                           | 71,775.00 | ..... | 56,100.00 | 15,675.00 | .....    |
| Equipment.....                          | 72.00     | ..... | 72.00     | .....     | 3,962.73 |
| Legislative Drafting Research Fund..... | 3,962.73  | ..... | .....     | .....     | 325.00   |
| Contingent Fund.....                    | 604.27    | ..... | 279.27    | .....     | .....    |
|   | 76,414.00 | ..... | .....     | .....     | .....    |

## MATHEMATICS

|                                 |           |           |           |       |           |
|---------------------------------|-----------|-----------|-----------|-------|-----------|
| Salaries.....                   | 52,450.00 | .....     | 39,100.00 | ..... | 13,350.00 |
| Departmental Appropriation..... | 60.98     | 52,510.98 | 60.98     | ..... | .....     |

## MECHANICAL ENGINEERING

|                                 |           |           |           |       |       |
|---------------------------------|-----------|-----------|-----------|-------|-------|
| Salaries.....                   | 31,014.98 | .....     | 31,014.98 | ..... | ..... |
| Departmental Appropriation..... | 3,592.14  | 34,607.12 | 3,592.14  | ..... | ..... |

## MINERALOGY

|                                 |          |          |          |       |       |
|---------------------------------|----------|----------|----------|-------|-------|
| Salaries.....                   | 8,150.00 | .....    | 8,150.00 | ..... | ..... |
| Departmental Appropriation..... | 158.14   | 8,308.14 | 158.14   | ..... | ..... |



|   | Expenditures | Departmental Totals | From General Income | From Income of Special Funds | From Gifts and Receipts and for Designated Purposes |
|---|--------------|---------------------|---------------------|------------------------------|---|
| <b>MINING AND METALLURGY</b>                |              |                     |                     |                              |   |
| Mining                                      |              |                     |                     |                              |   |
| Salaries.....                               | \$15,200.00  |                     | \$15,200.00         |                              |   |
| Departmental Appropriation.....             | 900.00       |                     | 900.00              |                              |   |
| Special Equipment.....                      | 1,640.27     |                     |                     |                              | \$1,640.27  |
|   |              | \$17,740.27         |                     |                              |   |
| Metallurgy                                  |              |                     |                     |                              |   |
| Salaries.....                               | 15,900.00    |                     | 15,200.00           |                              | 700.00  |
| Departmental Appropriation.....             | 1,100.00     |                     | 1,100.00            |                              |   |
| Summer Course.....                          | 100.00       |                     | 100.00              |                              |   |
| Metallurgical Research Laboratory.....      | 644.63       |                     |                     |                              | 644.63  |
|   |              | 17,744.63           |                     |                              |   |
| <b>MUSIC</b>                                |              |                     |                     |                              |   |
| Salaries.....                               | 11,750.00    |                     | 1,500.00            | \$10,250.00                  |   |
| Departmental Appropriation.....             | 1,056.06     |                     |                     | 1,056.06                     |   |
|   |              | 12,806.06           |                     |                              |   |
| <b>PHILOSOPHY AND PSYCHOLOGY</b>            |              |                     |                     |                              |   |
| Salaries: Philosophy.....                   | 37,354.87    |                     | 20,837.37           | 8,417.50                     | 8,100.00  |
| Salaries: Psychology.....                   | 10,275.00    |                     | 400.00              | 5,125.00                     | 4,750.00  |
| Departmental Appropriation: Philosophy..... | 99.75        |                     | 99.75               |                              |   |
| Departmental Appropriation: Psychology..... | 500.00       |                     | 500.00              |                              |   |
|   |              | 48,229.62           |                     |                              |   |
| <b>PHYSICAL EDUCATION</b>                   |              |                     |                     |                              |   |
| Salaries.....                               | 32,926.83    |                     | 21,326.83           |                              | 11,600.00   |
| Supplies and Repairs.....                   | 1,099.84     |                     | 1,099.84            |                              |   |
| Care of Swimming Pool.....                  | 800.00       |                     | 800.00              |                              |   |
| Departmental Appropriation.....             | 1,615.89     |                     | 1,615.89            |                              |   |
|   |              | 36,442.56           |                     |                              |   |

|                                     |  |           |           |           |          |           |
|-------------------------------------|--|-----------|-----------|-----------|----------|-----------|
| <b>PHYSICS</b>                      | Salaries.....  | 62,629.60 | .....     | 55,479.60 | 600.00   | 6,550.00  |
|                                     | Departmental Appropriation: Experimental.....                  | 1,365.21  | .....     | 265.21    | 1,100.00 | .....     |
|                                     | Equipment.....   | 672.96    | .....     | 672.96    | .....    | .....     |
|                                     | Equipment of Laboratory for Measurement of Heat and Light..... | 764.52    | .....     | 89.52     | 675.00   | .....     |
|                                     | Research Apparatus.....  | 995.71    | .....     | 995.71    | .....    | .....     |
|                                     | Physical Sciences Research.....                                | 2,015.66  | .....     | .....     | 2,015.66 | .....     |
|                                     | Research Laboratory.....                                       | 1,550.44  | .....     | .....     | .....    | 1,550.44  |
|                                     | Apparatus.....   | 82.43     | .....     | .....     | 82.43    | .....     |
|                                     | Departmental Appropriation: Mathematical.....                  | 75.00     | .....     | 75.00     | .....    | .....     |
|                                     |  |           | 70,151.53 |           |          |           |
| <b>PUBLIC LAW AND JURISPRUDENCE</b> | Salaries.....  | 34,750.00 | .....     | 27,925.00 | 5,525.00 | 1,300.00  |
|                                     | Publications.....  | 2,179.91  | .....     | .....     | 2,179.91 | .....     |
|                                     | Departmental Appropriation.....                                | 58.90     | .....     | 58.90     | .....    | .....     |
|                                     |  |           | 36,988.81 |           |          |           |
| <b>RELIGION</b>                     | Salaries.....  | 7,250.00  | .....     | 4,750.00  | .....    | 2,500.00  |
|                                     | Chapel Services.....   | 3,400.00  | .....     | 3,400.00  | .....    | .....     |
|                                     |  |           | 10,650.00 |           |          |           |
| <b>ROMANCE LANGUAGES</b>            | Salaries.....  | 60,825.00 | .....     | 45,925.00 | .....    | 14,900.00 |
|                                     | Departmental Appropriation.....                                | 167.58    | .....     | 167.58    | .....    | .....     |
|                                     | Phonetic Laboratory.....                                       | 12.76     | .....     | 12.76     | .....    | .....     |
|                                     |  |           | 61,005.34 |           |          |           |
| <b>SEMITIC LANGUAGES</b>            | Salaries.....  | .....     | 5,900.00  | 5,500.00  | 400.00   | .....     |
|                                     |  |           |           |           |          |           |
| <b>SLAVONIC LANGUAGES</b>           | Salaries.....  | .....     | 6,475.00  | 5,250.00  | .....    | 1,225.00  |
|                                     |  |           |           |           |          |           |



|  |           |           |           |           |
|--|-----------|-----------|-----------|-----------|
| <b>ANATOMY</b>                               |           |           |           |           |
| Salaries.....                                | 29,670.00 | .....     | 26,520.00 | 3,150.00  |
| Departmental Appropriation.....              | 5,498.28  | .....     | 5,477.00  | 21.28     |
| Preparator in Histology and Embryology ..... | 1,200.00  | .....     | 1,200.00  | .....     |
| Equipment .....                              | 869.01    | .....     | .....     | 869.01    |
|  |           | 37,237.29 |           |           |
| <b>BACTERIOLOGY</b>                          |           |           |           |           |
| Salaries.....                                | 11,600.00 | .....     | 6,672.53  | 4,927.47  |
| Special Research Influenza.....              | 302.45    | .....     | .....     | 302.45    |
| Departmental Appropriation.....              | 3,000.00  | .....     | 2,999.56  | .44       |
| Interdepartmental Social Hygiene.....        | 622.79    | .....     | .....     | 622.79    |
| Equipment.....                               | 1,200.00  | .....     | .....     | 1,200.00  |
|  |           | 16,725.24 |           |           |
| <b>BIOLOGICAL CHEMISTRY</b>                  |           |           |           |           |
| Salaries.....                                | 9,920.00  | .....     | 7,500.00  | 1,740.00  |
| Departmental Appropriation.....              | 3,999.95  | .....     | 3,370.66  | 629.29    |
|  |           | 13,919.95 |           |           |
| <b>CLINICAL INSTRUCTION</b>                  |           |           |           |           |
| Salaries.....                                | 6,483.34  | .....     | 4,900.00  | 1,583.34  |
| Departmental Appropriation.....              | 758.00    | .....     | 33.00     | 725.00    |
|  |           | 7,241.34  |           |           |
| <b>CROCKER FUND</b>                          |           |           |           |           |
| Salaries.....                                | 37,567.57 | .....     | .....     | 37,567.57 |
| Departmental Appropriation.....              | 22,010.84 | .....     | .....     | 22,010.84 |
|  |           | 59,578.41 |           |           |
| <b>DISEASES OF CHILDREN</b>                  |           |           |           |           |
| Salaries.....                                | .....     | 3,600.00  | 1,475.00  | 2,125.00  |
| <b>NEUROLOGY</b>                             |           |           |           |           |
| Salaries.....                                | 7,825.02  | .....     | 5,950.00  | 1,875.02  |
| Departmental Appropriation.....              | 1,306.42  | .....     | .....     | 1,306.42  |
| Equipment and Supplies.....                  | 498.19    | .....     | 498.19    | .....     |
|  |           | 9,629.63  |           |           |

|  | Expenditures | Departmental Totals | From General Income | From Income of Special Funds | From Gifts and Receipts for Designated Purposes |
|--|--------------|---------------------|---------------------|------------------------------|---|
| <b>OBSTETRICS AND GYNECOLOGY</b>                 |              |                     |                     |                              |   |
| Salaries.....                                    | \$17,220.00  | .....               | \$7,633.24          | \$9,586.76                   | .....   |
| Departmental Appropriation.....                  | 476.42       | .....               | 10.00               | 466.42                       | .....   |
| For Pathological Work.....                       | 441.67       | .....               | .....               | 441.67                       | .....   |
|  |              | \$118,138.09        |                     |                              |   |
| <b>PATHOLOGY</b>                                 |              |                     |                     |                              |   |
| Salaries.....                                    | 21,146.94    | .....               | 14,025.10           | 2,321.82                     | \$1,800.02                                      |
| Supplies.....                                    | 3,198.44     | .....               | 3,198.44            | .....                        | .....   |
| Apparatus.....                                   | 190.77       | .....               | 148.78              | 41.99                        | .....   |
|  |              | 24,536.15           |                     |                              |   |
| <b>PHARMACOLOGY</b>                              |              |                     |                     |                              |   |
| Salaries.....                                    | 9,950.00     | .....               | 5,410.00            | 4,540.00                     | .....   |
| Departmental Appropriation.....                  | 1,500.00     | .....               | 949.74              | 550.26                       | .....   |
| Special Instrument Fund.....                     | 424.03       | .....               | .....               | .....                        | 424.03  |
|  |              | 11,874.03           |                     |                              |   |
| <b>PHYSIOLOGY</b>                                |              |                     |                     |                              |   |
| Salaries.....                                    | 22,451.00    | .....               | 15,980.91           | 5,134.09                     | 1,336.00  |
| Departmental Appropriation.....                  | 2,495.41     | .....               | 2,495.41            | .....                        | .....   |
| Lee Fund.....                                    | 633.82       | .....               | .....               | 633.82                       | .....   |
| Wheelock Fund.....                               | 250.14       | .....               | .....               | 250.14                       | .....   |
|  |              | 25,880.37           |                     |                              |   |
| <b>PRACTICE OF MEDICINE</b>                      |              |                     |                     |                              |   |
| Salaries.....                                    | 40,018.05    | .....               | 18,608.53           | 8,259.52                     | 13,150.00                                       |
| Special Photographic Fund.....                   | 3,000.00     | .....               | .....               | .....                        | 3,000.00  |
| Laboratory Appropriation—Clinical Pathology..... | 1,259.68     | .....               | 1,259.68            | .....                        | .....   |
| Departmental Appropriation.....                  | 1,999.93     | .....               | 1,552.33            | 447.60                       | .....   |
| Medical Nursing Fund.....                        | 600.00       | .....               | 600.00              | .....                        | .....   |
|  |              | 46,877.66           |                     |                              |   |

# REPORT OF THE TREASURER

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|   |           |            |       |           |           |       |            |       |       |
|---|-----------|------------|-------|-----------|-----------|-------|------------|-------|-------|
| <b>SURGERY</b>  |           |            |       |           |           |       |            |       |       |
| Salaries.....   | 55,299.01 | .....      | ..... | 14,900.02 | 32,098.99 | ..... | 8,300.00   | ..... | ..... |
| Departmental Appropriation.....   | 5,849.47  | .....      | ..... | 3,401.39  | 2,448.08  | ..... | .....      | ..... | ..... |
| Supplies Research Laboratory.....   | 2,869.60  | .....      | ..... | .....     | .....     | ..... | 2,869.60   | ..... | ..... |
| Assistance Research Laboratory .....                                      | 9,790.00  | .....      | ..... | .....     | .....     | ..... | 9,790.00   | ..... | ..... |
|   | 73,808.08 | .....      | ..... | .....     | .....     | ..... | .....      | ..... | ..... |
| <b>HOSPITAL INSTRUCTION</b>   |           |            |       |           |           |       |            |       |       |
| For Medical and Surgical Instruction to Fourth Year Students.....         | .....     | 600.00     | ..... | 600.00    | .....     | ..... | .....      | ..... | ..... |
| <b>SLOANE HOSPITAL</b>  |           |            |       |           |           |       |            |       |       |
|   | .....     | 35,121.82  | ..... | .....     | 35,121.82 | ..... | .....      | ..... | ..... |
| <b>VANDERBILT CLINIC</b>  |           |            |       |           |           |       |            |       |       |
|   | .....     | 5,650.00   | ..... | .....     | 5,650.00  | ..... | .....      | ..... | ..... |
| <b>TEACHERS COLLEGE</b>   |           |            |       |           |           |       |            |       |       |
| Salaries.....   | .....     | 294,833.32 | ..... | .....     | .....     | ..... | 294,833.32 | ..... | ..... |
| <b>EAST RIVER HOMES GIFT</b>  |           |            |       |           |           |       |            |       |       |
| To be applied toward the work in Tuberculosis at the Medical School ..... | .....     | 9,000.00   | ..... | .....     | .....     | ..... | 9,000.00   | ..... | ..... |
| <b>Miscellaneous</b>  |           |            |       |           |           |       |            |       |       |
| <b>RETIRING ALLOWANCES</b>  |           |            |       |           |           |       |            |       |       |
|   | .....     | 54,649.96  | ..... | 5,216.87  | 4,000.00  | ..... | 45,433.09  | ..... | ..... |
| <b>WIDOWS' ALLOWANCES</b>   |           |            |       |           |           |       |            |       |       |
|   | .....     | 14,364.17  | ..... | 1,700.00  | .....     | ..... | 12,664.17  | ..... | ..... |
| <b>ANNUITIES</b>  |           |            |       |           |           |       |            |       |       |
|   | .....     | 1,203.10   | ..... | 1,203.10  | .....     | ..... | .....      | ..... | ..... |
| <b>FELLOWSHIPS</b>  |           |            |       |           |           |       |            |       |       |
| Adams—Special—Ernest Kempton Adams Research Fellowship Fund .....         | 1,000.00  | .....      | ..... | .....     | .....     | ..... | 1,000.00   | ..... | ..... |
| Bridgman.....   | 1,500.00  | .....      | ..... | .....     | 1,500.00  | ..... | .....      | ..... | ..... |
| Cutting .....   | 6,483.37  | .....      | ..... | .....     | 6,483.37  | ..... | .....      | ..... | ..... |
| Curtis.....   | 618.75    | .....      | ..... | .....     | 618.75    | ..... | .....      | ..... | ..... |
| Drier.....  | 650.00    | .....      | ..... | 650.00    | .....     | ..... | .....      | ..... | ..... |

|                                    | Expenditures | Departmental Totals | From General Income | From Income of Special Funds | From Gifts and Receipts for Designated Purposes |
|------------------------------------|--------------|---------------------|---------------------|------------------------------|---|
| Dupont.....                        | \$750.00     |                     |                     |                              | \$750.00  |
| Gilder.....                        | 1,960.00     |                     |                     | \$1,960.00                   |   |
| Emmons.....                        | 1,200.00     |                     |                     | 1,200.00                     |   |
| Goldschmidt.....                   | 670.00       |                     |                     | 670.00                       |   |
| Garth.....                         | 678.75       |                     |                     | 678.75                       |   |
| Gottaberger.....                   | 783.74       |                     |                     | 783.74                       |   |
| Bakelite.....                      | 1,000.00     |                     |                     |                              | 1,000.00  |
| Mitchell.....                      | 412.50       |                     |                     | 412.50                       |   |
| Moesenthal.....                    | 618.74       |                     |                     | 618.74                       |   |
| McKin.....                         | 1,650.00     |                     |                     | 1,650.00                     |   |
| Proudfit.....                      | 618.75       |                     |                     | 618.75                       |   |
| Perkins.....                       | 2,350.72     |                     |                     | 2,350.72                     |   |
| Schermerhorn.....                  | 1,608.75     |                     |                     | 1,608.75                     |   |
| Schliff.....                       | 618.75       |                     |                     | 618.75                       |   |
| Schurz.....                        | 825.00       |                     |                     | 825.00                       |   |
|                                    |              | \$25,997.82         |                     |                              |   |
| SCHOLARSHIPS                       |              |                     |                     |                              |   |
| Aldrich.....                       | 206.25       |                     |                     | 206.25                       |   |
| American Council on Education..... | 300.00       |                     | \$300.00            |                              |   |
| Beck.....                          | 82.50        |                     |                     | 82.50                        |   |
| Brooklyn (College).....            | 1,793.00     |                     | 1,793.00            |                              |   |
| Brooklyn (Barnard).....            | 1,800.00     |                     | 1,800.00            |                              |   |
| Burgess (Annie P.).....            | 206.25       |                     |                     | 206.25                       |   |
| Burgess (Daniel M.).....           | 206.25       |                     |                     | 206.25                       |   |

|  |            |       |           |           |           |
|--|------------|-------|-----------|-----------|-----------|
| Butler (Richard).....                  | 223.76     | ..... | .....     | 223.76    | .....     |
| Campbell.....                          | 247.50     | ..... | .....     | 247.50    | .....     |
| Class of '48.....                      | 412.50     | ..... | .....     | 412.50    | .....     |
| Class of '85.....                      | 435.58     | ..... | .....     | 435.58    | .....     |
| Class of '92.....                      | 370.00     | ..... | .....     | 370.00    | .....     |
| Collins (Perry McDonough).....         | 24,989.21  | ..... | .....     | 24,989.21 | .....     |
| Curtis.....                            | 575.40     | ..... | 575.40    | .....     | .....     |
| DeWitt.....                            | 631.20     | ..... | .....     | 631.20    | .....     |
| Dupont.....                            | 750.00     | ..... | .....     | .....     | 750.00    |
| Dunn (Gano).....                       | 250.00     | ..... | .....     | .....     | 250.00    |
| Faculty Scholarship Fund.....          | 15,828.70  | ..... | 12,962.24 | 2,866.46  | .....     |
| Hall.....                              | 592.48     | ..... | .....     | 592.48    | .....     |
| Jones, (John D.).....                  | 200.00     | ..... | .....     | .....     | 200.00    |
| McClmonds.....                         | 1,300.00   | ..... | .....     | .....     | 1,300.00  |
| Pan Hellenic Union.....                | 100.00     | ..... | .....     | .....     | 100.00    |
| President's Scholarship Fund.....      | 2,497.00   | ..... | 2,497.00  | .....     | .....     |
| Professors (Sons of).....              | 4,122.00   | ..... | 4,122.00  | .....     | .....     |
| Pulitzer Scholarships.....             | 20,974.10  | ..... | 8,342.10  | 12,632.00 | .....     |
| Saunders.....                          | 247.50     | ..... | .....     | 247.50    | .....     |
| Schermerhorn.....                      | 206.25     | ..... | .....     | 206.25    | .....     |
| Stuart.....                            | 247.50     | ..... | .....     | 247.50    | .....     |
| State.....                             | 28,665.00  | ..... | .....     | .....     | 28,665.00 |
| Van Gelder.....                        | 470.00     | ..... | .....     | .....     | 470.00    |
| Wheeler (John Vlescher).....           | 500.00     | ..... | .....     | 500.00    | .....     |
| Young Men's Christian Association..... | 50.00      | ..... | .....     | .....     | 50.00     |
|  | 109,479.93 | ..... | .....     | .....     | .....     |
| <b>PRIZES AND MEDALS</b>               |            |       |           |           |           |
| Alumni Association Prizes.....         | 50.00      | ..... | .....     | .....     | 50.00     |
| Beck Prize.....                        | 356.24     | ..... | .....     | 356.24    | .....     |



|  | Expenditures | Departmental Totals | From General Income | From Income of Special Funds | From Gifts and Receipts for Designated Purposes |
|--|--------------|---------------------|---------------------|------------------------------|---|
| Brainard Prize .....                                       | \$50.00      | .....               | .....               | \$50.00                      | .....   |
| Butler (Nicholas Murray) Medal .....                       | 325.00       | .....               | .....               | 325.00                       | .....   |
| Class of '89 Medal .....                                   | 70.00        | .....               | .....               | 70.00                        | .....   |
| Convers Prize .....  | 54.13        | .....               | .....               | 54.13                        | .....   |
| Darling Prize .....  | 43.92        | .....               | .....               | 43.92                        | .....   |
| Deutscher Verein Prize .....                               | 41.25        | .....               | .....               | 41.25                        | .....   |
| Earle Prize .....  | 53.74        | .....               | .....               | 53.74                        | .....   |
| Elisberg Prize .....                                       | 50.00        | .....               | .....               | 50.00                        | .....   |
| Green Prize .....  | 50.00        | .....               | .....               | 50.00                        | .....   |
| Montgomery Prize .....                                     | 41.61        | .....               | .....               | 41.61                        | .....   |
| N. Y. State Society of Certified Public Accountants .....  | 40.00        | .....               | .....               | .....                        | \$40.00   |
| Ordonaux Prize .....                                       | 124.45       | .....               | .....               | 124.45                       | .....   |
| Pulitzer Prizes .....                                      | 7,803.85     | .....               | .....               | 7,803.85                     | .....   |
| Rolker Prize .....   | 41.25        | .....               | .....               | 41.25                        | .....   |
| Squires Prize .....  | 216.55       | .....               | .....               | 216.55                       | .....   |
| Toppan Prize .....   | 166.37       | .....               | .....               | 166.37                       | .....   |
| Van Amringe Prize .....                                    | 208.22       | .....               | .....               | 208.22                       | .....   |
| Van Buren Mathematical Prize .....                         | 226.71       | .....               | .....               | 226.71                       | .....   |
|  | \$10,013.29  | \$10,013.29         |                     |                              |   |
| FELLOWSHIPS, SCHOLARSHIPS AND PRIZES AT THE MEDICAL SCHOOL |              |                     |                     |                              |   |
| Bleyer Scholarship .....                                   | 250.00       | .....               | .....               | .....                        | 250.00  |
| Blumenthal Scholarships .....                              | 1,601.19     | .....               | .....               | 1,601.19                     | .....   |
| Blumenthal Fellowships .....                               | 1,000.00     | .....               | .....               | 1,000.00                     | .....   |
| Devendorf Fellowships .....                                | 265.00       | .....               | .....               | 265.00                       | .....   |

|                              |          |                |                |              |              |
|------------------------------|----------|----------------|----------------|--------------|--------------|
| Doughty Scholarships.....    | 375.00   | .....          | .....          | 375.00       | .....        |
| DuBois Fellowships.....      | 900.00   | .....          | .....          | 900.00       | .....        |
| Faculty Scholarships.....    | 1,000.00 | .....          | 860.44         | 139.56       | .....        |
| Harsen Scholarships.....     | 1,250.00 | .....          | .....          | 1,250.00     | .....        |
| Hartley Scholarships.....    | 250.00   | .....          | .....          | 250.00       | .....        |
| Proudfit Fellowships.....    | 1,200.00 | .....          | .....          | 1,200.00     | .....        |
| Research Fellowships.....    | 2,604.24 | .....          | .....          | .....        | 2,604.24     |
| Vanderbilt Scholarships..... | 1,000.00 | .....          | 1,000.00       | .....        | .....        |
| Additional Scholarships..... | 4,000.00 | .....          | 4,000.00       | .....        | .....        |
|                              |          | 15,695.43      |                |              |              |
|                              |          | \$3,219,056.49 | \$2,102,613.20 | \$440,941.55 | \$675,501.74 |

## EXPENSES—BUILDINGS AND GROUNDS

|   | Expenditures | Departmental Totals | From General Income | From Income of Special Funds | From Gifts and Receipts for Designated Purposes |
|---|--------------|---------------------|---------------------|------------------------------|---|
| <b>MORNINGSIDE HEIGHTS</b>              |              |                     |                     |                              |   |
| Salaries.....                           | \$9,150.00   |                     | \$9,150.00          |                              |   |
| Care of Boat House.....                 | 1,975.00     |                     | 1,975.00            |                              |   |
| Cleaning.....                           | 4,630.00     |                     |                     |                              |   |
| Fuel.....                               | 80,341.10    |                     | 80,341.10           |                              |   |
| Furniture and Fixtures.....             | 2,775.00     |                     | 2,775.00            |                              |   |
| Gas and Electricity.....                | 6,000.00     |                     | 6,000.00            |                              |   |
| Maintenance, General Buildings.....     | 29,419.00    |                     | 29,419.00           |                              |   |
| Residence Halls.....                    | 80,841.00    |                     | 80,841.00           |                              |   |
| School of Journalism.....               | 13,252.00    |                     |                     | \$13,252.00                  |   |
| Planting.....                           | 494.81       |                     | 494.81              |                              |   |
| Post Office.....                        | 2,315.00     |                     | 2,315.00            |                              |   |
| Power House and Janitorial Service..... | 83,450.00    |                     | 83,450.00           |                              |   |
| Superintendent's Supplies.....          | 6,627.74     |                     | 6,627.74            |                              |   |
| Telephone Service.....                  | 16,778.58    |                     | 16,778.58           |                              |   |
| Uniforms.....                           | 591.31       |                     | 591.31              |                              |   |
| Water Rates.....                        | 5,786.00     |                     | 5,786.00            |                              |   |
|   |              | \$344,426.54        |                     |                              |   |
| <b>MEDICAL SCHOOL</b>                   |              |                     |                     |                              |   |
| Cleaning.....                           | 907.23       |                     | 907.23              |                              |   |
| Departmental Assistance.....            | 10,626.06    |                     | 10,626.06           |                              |   |
| Fuel.....                               | 37,090.06    |                     | 31,309.23           | 5,780.83                     |   |
| Furniture and Fixtures.....             | 493.35       |                     | 493.35              |                              |   |
| Gas and Electricity.....                | 1,715.73     |                     | 1,715.73            |                              |   |
| Power House and Janitorial Service..... | 25,065.27    |                     | 19,316.49           | 5,548.78                     |   |
| Maintenance of Buildings.....           | 4,065.78     |                     | 4,065.78            |                              |   |

|   |          |                     |                     |                    |                   |
|---|----------|---------------------|---------------------|--------------------|-------------------|
| Superintendent's Supplies.....                    | 3,036.00 | .....               | 2,760.00            | 276.00             | .....             |
| Water Rates.....                                  | 2,600.00 | .....               | 2,512.63            | 87.37              | .....             |
| <b>GYMNASIUM</b>                                  |          |                     |                     |                    |                   |
| Janitorial Service.....                           | 2,170.00 | 85,599.48           | 2,170.00            | .....              | .....             |
| Laundry Service.....                              | 1,700.00 | .....               | 1,700.00            | .....              | .....             |
| Evening Service.....                              | 900.00   | .....               | 900.00              | .....              | .....             |
| Lockers.....                                      | 3,403.80 | .....               | 3,403.80            | .....              | .....             |
| Janitorial Service, Athletic Room.....            | 400.00   | .....               | 400.00              | .....              | .....             |
| Furnald Hall:                                     |          |                     |                     |                    |                   |
| Laundry Service.....                              | 400.00   | .....               | 400.00              | .....              | .....             |
| Changes.....                                      | 2,000.00 | .....               | 2,000.00            | .....              | .....             |
| <b>SUMMER SESSION</b>                             |          |                     |                     |                    |                   |
| General Expenses.....                             | .....    | 10,973.80           | .....               | .....              | .....             |
|   | .....    | 10,288.93           | 10,288.93           | .....              | .....             |
| <b>MAINTENANCE OF SOUTH AND EAST FIELDS</b>       |          |                     |                     |                    |                   |
| Special Maintenance.....                          | 300.00   | .....               | 300.00              | .....              | .....             |
| Attendance and Supplies.....                      | 2,445.00 | .....               | 2,445.00            | .....              | .....             |
| <b>PUBLIC CEREMONIES</b>                          |          |                     |                     |                    |                   |
| Public Ceremonies.....                            | .....    | 2,745.00            | .....               | .....              | .....             |
| Urgent Repairs.....                               | .....    | 1,199.02            | 1,199.02            | .....              | .....             |
| Changes and Additions Engineering Building.....   | .....    | 11,800.00           | 11,800.00           | .....              | .....             |
| Changing Elevator Engineering Building.....       | .....    | 941.47              | 941.47              | .....              | .....             |
| Avery Stairway Gates.....                         | .....    | 3,800.00            | 3,800.00            | .....              | .....             |
| Equipment of Quantitative Laboratory.....         | .....    | 106.00              | 106.00              | .....              | .....             |
| Rives Memorial Tablet.....                        | .....    | 12,306.25           | 10,000.00           | 2,306.25           | .....             |
| University Commons Repairs.....                   | .....    | 1,170.00            | 1,170.00            | .....              | .....             |
| Dormitory Plans.....                              | .....    | 4,920.46            | 4,920.46            | .....              | .....             |
| University Commons Refrigeration.....             | .....    | 395.07              | 395.07              | .....              | .....             |
| Steel Lockers, School of Business Journalism..... | .....    | 665.86              | 665.86              | .....              | .....             |
| Installation of Chemistry Stores.....             | .....    | 905.56              | 905.56              | .....              | .....             |
| Freshman Study Contemporary Legislation.....      | .....    | 446.19              | 446.19              | .....              | .....             |
| Plans for Temporary Building on East Field.....   | .....    | 1,011.20            | 1,011.20            | .....              | .....             |
| 419 West 117th Street.....                        | .....    | 125.00              | 125.00              | .....              | .....             |
|   | .....    | 31.07               | 31.07               | .....              | .....             |
|   |          | <b>\$493,856.90</b> | <b>\$468,605.67</b> | <b>\$24,944.98</b> | <b>\$2,306.25</b> |

## EXPENSES—LIBRARY

|                                      | Expenditures | Departmental Totals | From General Income | From Income of Special Funds | From Gifts and Receipts for Designated Purposes |
|--------------------------------------|--------------|---------------------|---------------------|------------------------------|---|
| <b>LIBRARY</b>                       |              |                     |                     |                              |   |
| Salaries.....                        | \$68,862.10  |                     | \$65,562.10         | \$1,500.00                   | \$1,800.00                                      |
| Emergencies.....                     | 1,363.78     |                     | 1,363.78            |                              |   |
| Purchases of Books and Serials.....  | 22,448.55    |                     | 22,190.16           |                              | 258.39  |
| Binding.....                         | 7,799.25     |                     | 7,799.25            |                              |   |
| Printed Catalogue Cards.....         | 736.30       |                     | 736.30              |                              |   |
| Incidentals.....                     | 4,945.37     |                     | 4,422.85            |                              | 522.52  |
|                                      |              | \$106,155.35        |                     |                              |   |
| <b>PURCHASES FROM GIFTS, ETC.</b>    |              |                     |                     |                              |   |
| Crane, (Charles R.) Fund.....        | 2.24         |                     |                     |                              | 2.24  |
| Leon Israel Gift.....                | 1,145.88     |                     |                     |                              | 1,145.88  |
| Loeb (James) Fund.....               | 357.83       |                     |                     |                              | 357.83  |
| Montgomery Gift.....                 | 265.07       |                     |                     |                              | 265.07  |
| Low (Wm. G.) Fund.....               | 401.67       |                     |                     |                              | 401.67  |
| Lewisohn Dissertation Fund.....      | 295.90       |                     |                     |                              | 295.90  |
| Committee of Fifty Fund.....         | 25.10        |                     |                     |                              | 25.10   |
|                                      |              | 2,493.69            |                     |                              |   |
| <b>COLLEGE STUDY</b>                 |              | 2,580.00            | 2,580.00            |                              |   |
| <b>APPLIED SCIENCE READING ROOMS</b> |              | 4,343.73            | 4,343.73            |                              |   |
| <b>KENT HALL READING ROOMS</b>       |              |                     |                     |                              |   |
| Book Shelves.....                    | 131.28       |                     |                     | 131.28                       |   |
| Assistance.....                      | 800.00       |                     | 800.00              |                              |   |
|                                      |              | 931.28              |                     |                              |   |

|   |           |           |          |           |        |
|---|-----------|-----------|----------|-----------|--------|
| <b>PHILOSOPHY READING ROOMS</b>           |           |           |          |           |        |
| Librarian and Assistance.....             |           | 2,180.00  | 2,180.00 |           |        |
| <b>SCHERMERHORN HALL READING ROOMS</b>    |           |           |          |           |        |
| Librarian and Assistance.....             |           | 2,768.90  | 2,768.90 |           |        |
| <b>EVERY LIBRARY</b>                      |           |           |          |           |        |
| Library Staff.....                        | 3,930.04  |           | 3,930.04 |           |        |
| Avery Library Fund.....                   | 3,136.33  |           |          | 3,136.33  |        |
|   |           | 7,066.37  |          |           |        |
| <b>LAW SCHOOL LIBRARY</b>                 |           |           |          |           |        |
| Library Staff.....                        | 3,300.00  |           | 3,300.00 |           |        |
| Books and Binding.....                    | 3,475.46  |           | 3,258.90 | 216.56    |        |
| Law School Alumni Fund.....               | 47.50     |           |          | 47.50     |        |
| James S. Carpenter Fund.....              | 13,386.77 |           |          | 13,386.77 |        |
| American Law Reports Fund.....            | 627.80    |           |          |           | 627.80 |
|   |           | 20,837.53 |          |           |        |
| <b>MAISON FRANCAISE BOOKS</b>             |           | 500.00    |          |           | 500.00 |
| <b>SCHOOL OF JOURNALISM LIBRARY</b>       |           |           |          |           |        |
| Library Staff.....                        | 1,617.41  |           |          | 1,617.41  |        |
| Books and Binding.....                    | 1,722.16  |           |          | 1,722.16  |        |
| Newspapers.....                           | 541.83    |           |          | 541.83    |        |
| Equipment.....                            | 502.17    |           |          | 502.17    |        |
| Incidentals.....                          | 43.21     |           |          | 43.21     |        |
|   |           | 4,426.78  |          |           |        |
| <b>MEDICAL SCHOOL LIBRARY</b>             |           |           |          |           |        |
| Library Staff.....                        | 1,033.13  |           | 1,033.13 |           |        |
| Books and Binding.....                    | 1,240.39  |           | 1,240.39 |           |        |
| E. G. Janeway Library Endowment Fund..... | 1,287.92  |           |          | 1,287.92  |        |
|   |           | 3,561.44  |          |           |        |

|                                     | Expenditures | Depart-<br>mental<br>Totals | From<br>General<br>Income | From<br>Income<br>of Special<br>Funds | From Gifts<br>and Receipts<br>for<br>Designated<br>Purposes |
|-------------------------------------|--------------|-----------------------------|---------------------------|---------------------------------------|---|
| <b>PURCHASES FROM SPECIAL FUNDS</b> |              |                             |                           |                                       |   |
| Hugo Reisinger Fund.....            | \$103.12     | .....                       | .....                     | \$103.12                              | .....   |
| Currier Fund.....                   | 3,537.72     | .....                       | .....                     | 3,537.72                              | .....   |
| Barnard Library Fund.....           | 5,763.93     | .....                       | .....                     | 5,763.93                              | .....   |
| Cotheal Fund.....                   | 609.38       | .....                       | .....                     | 609.38                                | .....   |
| Joseph P. Chamberlain Fund.....     | 4,248.35     | .....                       | .....                     | 4,248.35                              | .....   |
| Shoemaker (Wm. B.) Fund.....        | 161.37       | .....                       | .....                     | 161.37                                | .....   |
| Schurz (Carl) Library Fund.....     | 548.38       | .....                       | .....                     | 548.38                                | .....   |
|                                     | \$14,972.25  | .....                       | .....                     | .....                                 | .....   |
|                                     |              | \$172,817.32                | \$127,509.53              | \$39,105.39                           | \$6,202.40  |

## EXPENSES—BUSINESS ADMINISTRATION

|  | Expenditures | Departmental Totals | From General Income | From Income of Special Funds | From Gifts and Receipts for Designated Purposes |
|--|--------------|---------------------|---------------------|------------------------------|---|
| Salaries.....  | \$59,980.29  | .....               | \$55,230.29         | .....                        | \$4,750.00                                      |
| Appraisals.....  | 25.00        | .....               | 25.00               | .....                        | .....   |
| Attorney's Office Expenses.....                              | 2,327.67     | .....               | 2,327.67            | .....                        | .....   |
| Extraordinary Legal Expenses.....                            | 300.00       | .....               | 300.00              | .....                        | .....   |
| Clerk's Office, Sundries.....                                | 2,000.00     | .....               | 2,000.00            | .....                        | .....   |
| Legal Expenses.....  | 827.00       | .....               | 77.00               | \$750.00                     | .....   |
| Treasurer's Office, Sundries.....                            | 1,345.05     | .....               | 1,345.05            | .....                        | .....   |
| Auditing Accounts.....                                       | 4,100.00     | .....               | 4,100.00            | .....                        | .....   |
| Special Corporation Expenses.....                            | 3,759.18     | .....               | 3,759.18            | .....                        | .....   |
| Office Rent.....   | 2,729.18     | .....               | 2,729.18            | .....                        | .....   |
| 116th Street Tunnels—Franchises.....                         | 577.00       | .....               | 577.00              | .....                        | .....   |
| Insurance.....   | 18,629.65    | .....               | 18,629.65           | .....                        | .....   |
|  |              | \$96,600.02         |                     |                              |   |
| Taxes:   |              |                     |                     |                              |   |
| Chaplain's House (413 West 117th Street).....                | 735.50       | .....               | 735.50              | .....                        | .....   |
| Dean's House (415 West 117th Street).....                    | 540.62       | .....               | 540.62              | .....                        | .....   |
| Membership in Hospital Bureau of Purchases and Supplies..... | 250.00       | .....               | 250.00              | .....                        | .....   |
| Miscellaneous Salary Adjustments.....                        | .52          | .....               | .52                 | .....                        | .....   |
|  |              | 1,526.64            |                     |                              |   |
|  |              | \$98,126.66         | \$92,626.66         | \$750.00                     | \$4,750.00                                      |



## EXPENSES—ANNUITIES

|   | Expenditures | Departmental Totals | From General Income | From Income of Special Funds | From Gifts and Receipts for Designated Purposes |
|---|--------------|---------------------|---------------------|------------------------------|---|
| John W. Burgess Fund.....                   | \$4,000.00   |                     |                     | \$4,000.00                   |   |
| Edward R. Carpenter Fund.....               | 2,700.00     |                     |                     | 2,700.00                     |   |
| H. W. Carpenter Fund.....                   | 7,500.00     |                     |                     | 7,500.00                     |   |
| W. Bayard Cutting, Jr. Fellowship Fund..... | 600.00       |                     |                     | 600.00                       |   |
| Fernald Hall Fund.....                      | 18,599.31    |                     | \$18,599.31         |                              |   |
| Seldi Fund.....                             | 1,122.64     |                     |                     | 1,122.64                     |   |
| Waring Fund.....                            | 9,338.80     |                     |                     | 9,338.80                     |   |
|   |              | \$43,860.75         |                     |                              |   |
|   |              | \$43,860.75         | \$18,599.31         | \$25,261.44                  |   |

## INTEREST ACCOUNT

## INTEREST PAID:

|  |              |
|--|--------------|
| On Corporate Debt.....                   | \$120,000.00 |
| On Temporary Loans.....                  | 2,031.25     |
| On 503/11 Broadway Mortgage.....         | 24,895.11    |
| On Medical School New Site Mortgage..... | 11,680.55    |
|  | <hr/>        |
|  | \$158,606.91 |

## DEDUCT INTEREST RECEIVED AS FOLLOWS:

|                                   |           |              |
|-----------------------------------|-----------|--------------|
| 19 West 50th Street.....          | \$ 799.64 |              |
| 503/11 Broadway.....              | 32,788.81 |              |
| 620 Fifth Avenue.....             | 900.00    |              |
| George Crocker Research Fund..... | 779.10    | 35,267.55    |
|                                   | <hr/>     |              |
|                                   |           | \$123,339.36 |
|                                   |           | <hr/>        |
|                                   |           | <hr/>        |

## EXPENSES—SUMMARY

|   | Total          | From<br>General<br>Income | From<br>Income<br>of Special<br>Funds | From Gifts<br>and Receipts<br>for<br>Designated<br>Purposes |
|---|----------------|---------------------------|---------------------------------------|---|
| Educational Administration and Instruction..... | \$3,158,100.19 | \$2,041,656.90            | \$440,941.55                          | \$675,501.74  |
| Buildings and Grounds.....                      | 493,856.90     | 466,605.67                | 24,944.98                             | 2,306.25  |
| Library.....                                    | 172,817.32     | 127,509.53                | 39,105.39                             | 6,202.40  |
| Business Administration.....                    | 98,126.66      | 92,626.66                 | 750.00                                | 4,750.00  |
| Annuities.....                                  | 43,860.75      | 18,599.31                 | 25,261.44                             |   |
| Interest .....                                  | 158,606.91     | 158,606.91                |                                       |   |
|   | \$4,125,368.73 | \$2,905,604.98            | \$531,003.36                          | \$688,760.39  |
| Transferred from Income of Special Funds:       | 157,858.79     |                           |                                       |   |
| Carpenter (H. W.) Endowment Fund.....           |                |                           | \$ 36,080.42                          |   |
| Fire Insurance Fund.....                        |                |                           | 2,000.00                              |   |
| Kennedy (John Stewart) Endowment Fund.....      |                |                           | 109,429.26                            |   |
| Mower (Sara E.) Fund.....                       |                |                           | 341.25                                |   |
| Van Cortlandt (Robert B.) Fund.....             |                |                           | 9,961.76                              |   |
| Webber (John) Fund.....                         |                |                           | 46.10                                 |   |
|   | \$4,125,368.73 | \$2,747,746.19            | \$688,862.15                          | \$688,760.39  |

## STUDENTS LOAN FUNDS

|  | Principal          | Loans                     | Balance               |
|--|--------------------|---------------------------|-----------------------|
| Blumenthal (George) Jr.....            | \$8,068.87         | \$7,957.00                | \$111.87              |
| Class of '79 Mines.....                | 3,724.81           | 1,497.50                  | 2,227.31              |
| Class of '86.....                      | 560.77             | 452.00                    | 108.77                |
| Class of '87 Mines.....                | 7,988.50           | 3,945.83                  | 4,042.67              |
| Class of '04.....                      | 1,051.95           | 949.00                    | 102.95                |
| Extension Teaching.....                | 1,021.22           | 1,775.00                  | 753.78 Dr.            |
| Kearney (Phil).....                    | 1,026.27           | 650.00                    | 376.27                |
| Law School.....                        | 80.76              | 105.00                    | 24.24 Dr.             |
| Payne.....                             | 2,291.53           | 2,279.00                  | 12.53                 |
| Shoemaker.....                         | 2,676.95           | 2,462.48                  | 214.47                |
| Special 1914-1915.....                 |                    | 1,616.57                  | 1,616.57 Dr.          |
| Students'.....                         | 11,237.49          | 10,914.31                 | 323.18                |
|  | <u>\$39,729.12</u> | <u>\$34,603.69</u>        | <u>\$7,520.02 Cr.</u> |
| Less Reserve for Doubtful Accounts.... |                    | 150.03                    | \$2,394.59 Dr.        |
|  |                    | <u><u>\$34,453.66</u></u> |                       |

## BALANCE SHEET AT JUNE 30, 1920

| ASSETS   |                 | General<br>Funds | Special<br>Funds | Total           |
|--|-----------------|------------------|------------------|-----------------|
| Cash at Banks and on Hand.....   | \$              | 14,314.42        | 91,398.30        | 105,712.72      |
| Notes Receivable.....  |                 | 56,661.06        |                  | 56,661.06       |
| Accounts Receivable:   |                 |                  |                  |                 |
| Sundry Debtors less Reserve .....  | 102,181.64      |                  |                  |                 |
| Accounts Receivable—Students, less<br>Reserve.....                                       | 3,447.22        |                  |                  |                 |
| Arrears of Rent (See Page 387)....   | 17,061.32       | 122,690.18       |                  | 122,690.18      |
| Loans to Students less Reserve (See Page 381).....                                       |                 | 1,517.43         | 32,936.23        | 34,453.66       |
| Inventories of Materials and Supplies.....   |                 | 58,895.16        |                  | 58,895.16       |
| Rents Accrued—not due.....   |                 | 116,352.65       |                  | 116,352.65      |
| Deferred Charges:  |                 |                  |                  |                 |
| Unexpired Insurance.....   | 40,836.67       |                  |                  |                 |
| Miscellaneous.....   | 2,514.28        | 43,350.95        |                  | 43,350.95       |
| Advances against Future Appropriations.....  |                 | 113,318.06       |                  | 113,318.06      |
| Advances on account of Income of Special Funds and<br>Gifts (See Pages 368 and 378)..... |                 |                  | 164,188.61       | 164,188.61      |
| Securities Owned—Book Value (See Page 400).....  |                 | 156,607.66       | 16,460,558.67    | 16,617,166.33   |
| Investment of Contract Deposits—Book Value (see<br>Contra \$53,500.00).....              |                 | 53,474.40        |                  | 53,474.40       |
| Due from Special Funds (per Contra).....   |                 | 216,914.53       |                  | 216,914.53      |
| Real Estate:   |                 |                  |                  |                 |
| University Land, Buildings and<br>Equipment—at Cost (See Page 406) \$15,996,472.60       |                 |                  |                  |                 |
| Rental Properties:   |                 |                  |                  |                 |
| Upper and Lower<br>Estates—at 1920<br>Assessed Valua-<br>tion.....                       | \$18,858,500.00 |                  |                  |                 |
| Other Property—<br>at Book Values..  | 2,964,198.73    | 21,822,698.73    | 37,819,171.33    | 37,819,171.33   |
| (See Page 407)   |                 |                  |                  |                 |
| Investment of Redemption Fund:   |                 |                  |                  |                 |
| Securities at Book Value (See P. 401)  | 998,223.30      |                  |                  |                 |
| Cash at Bank (See Page 401).....   | 1,776.70        | 1,000,000.00     |                  | 1,000,000.00    |
|  |                 |                  |                  |                 |
|  |                 | \$39,773,267.83  | \$16,749,081.81  | \$56,522,349.64 |

## BALANCE SHEET AT JUNE 30, 1920

| LIABILITIES, FUNDS, RESERVES AND CAPITAL   | General Funds   | Special Funds   | Total           |
|--|-----------------|-----------------|-----------------|
| Accounts Payable:  |                 |                 |                 |
| Sundry Creditors..... \$   | 62,775.39       |                 |                 |
| Salaries.....  | 64,250.66       |                 |                 |
|  | 127,026.05      |                 | 127,026.05      |
| Deposits:  |                 |                 |                 |
| Contract Deposits—(see Contra \$53,474.40).....  | 53,500.00       |                 |                 |
| Students Deposits.....   | 37,660.03       |                 |                 |
|  | 91,160.03       |                 | 91,160.03       |
| Payments Received in Advance:  |                 |                 |                 |
| From Students—for Fees.....  | 5,920.77        |                 |                 |
| Prepaid Rentals—Rental Properties.....   | 1,950.82        |                 |                 |
|  | 7,871.59        |                 | 7,871.59        |
| Accrued Interest:  |                 |                 |                 |
| Mortgages Payable.....   | 11,564.61       |                 |                 |
| Columbia College Bonds.....  | 10,000.00       |                 |                 |
|  | 21,564.61       |                 | 21,564.61       |
| Reserves for Purchase of Equipment. Deferred and Prepaid Income.....                       | 16,473.44       |                 | 16,473.44       |
| Inter Departmental Credits to Appropriations (Estimated) (Net).....                        |                 | 4,750.00        | 4,750.00        |
| Unexpended Income (See Page 363)...  | 10,062.96       |                 | 10,062.96       |
| Unexpended Gifts and Receipts for Designated Purposes (See Page 373)                       |                 | 390,797.94      | 390,797.94      |
| Due to General Funds (per Contra)...   |                 | 521,815.15      | 521,815.15      |
| Mortgages—New York City Property:  |                 | 216,914.53      | 216,914.53      |
| Medical School—New Site.....   | 250,000.00      |                 |                 |
| Loubat Fund Property.....  | 448,000.00      |                 |                 |
| Claremont Avenue Properties.....   | 896,500.00      |                 |                 |
|  | 1,594,500.00    |                 | 1,594,500.00    |
| Columbia College 4% Mortgage Bonds Funds (Principal):                                      | 3,000,000.00    |                 | 3,000,000.00    |
| Permanent—For Purchase of Land, Erection of Buildings, Equipment, etc. (See Page 483)..... | 8,359,498.30    |                 | 8,359,498.30    |
| Special Funds (See Page 481).....  |                 | 15,575,075.07   | 15,575,075.07   |
| Students' Loan Funds (See Page 351)  |                 | 39,729.12       | 39,729.12       |
| Capital Account (See Page 353).....  | 25,545,110.85   |                 |                 |
| Principal of Redemption Fund (S.P. 401)  | 1,000,000.00    |                 | 26,545,110.85   |
|  | \$39,773,267.83 | \$16,749,081.81 | \$56,522,349.64 |

## CAPITAL ACCOUNT AS AT JUNE 30, 1920

Balance at July 1st, 1919, as per Books..... \$26,400,649.91

## ADJUSTMENTS:

## DEDUCT:

|  |              |
|--|--------------|
| Alumni Fund for General Purposes of the University transferred to Permanent Funds.....                                   | 127,660.00   |
| Adjustment of Interest on Loubat Annuity Mortgage.....   | 26,199.04    |
| Interest Accrued on 4% Columbia College Bonds June 1st to June 30th, 1919.....   | 10,000.00    |
| Interest Accrued on Mortgage, Medical School Site June 1st to June 30th, 1919.....                                       | 937.50       |
| Interest on Balance due Special Funds from General Funds from 1909 to June 30th, 1919.....                               | 36,317.09    |
| Adjustment of Salaries Account 1918-1919.....  | 771.25       |
| Expense of Columbia House Applicable to 1918-1919, previously charged to the income of Deutsches Haus Endowment Fund.... | 615.63       |
| Cancellation of Notes of Students who died in the war.....   | 420.00       |
| Rent Prepaid.....  | 221.66       |
|  | <hr/>        |
|  | \$203,142.17 |

## LESS:

|  |                 |
|--|-----------------|
| Accrued rentals of Upper and Lower Estates May 1st to June 30th, 1919.....   | \$114,894.32    |
| Accrued rentals 18 East 16th Street February 1st to June 30th, 1919.....   | 1,250.00        |
| Students Army Training Corps, Transactions applying to period January 1st, 1918 to June 30th, 1919:  |                 |
| Amounts received from U. S. Government and from soldiers for housing and instruction.....  | \$11,446.13     |
| LESS: Cost of changing equipment at Commons and at Barracks, and rebates to S. A. T. C. Students.....  | 3,978.20        |
|  | <hr/>           |
|  | 7,467.93        |
| Arrears of rent February 1st, 1914 to February 1st, 1917, 18 East 16th Street (Net).....   | 19,000.00       |
| Amount received on account of renewal of leasehold 200-201 Barclay Street .....  | 1,188.55        |
| Tax lien purchased in 1917 on property 19 West 50th Street and charged to Capital Account transferred to "19 West 50th Street Litigation Account"..... | 7,801.40        |
|  | <hr/>           |
| Carried Forward.....   | \$26,400,649.91 |

|  |          |                 |
|--|----------|-----------------|
| Brought Forward.....   |          | \$26,400,649.91 |
| Interest claims re above transaction, portion applying to prior years.....   | 3,913.79 |                 |
| Stock dividend of 10-92/100ths shares Consolidation Coal Co. received in April, 1918 .....                                     | 1,092.00 |                 |
| Amount received on property 69 West 49th Street applying against balance charged to Income and Expense at June 30th, 1919..... | 376.50   |                 |
| Old outstanding checks written back.....   | 767.75   |                 |
| To establish a nominal cost on our books of improvements on properties:  |          |                 |
| 83 Barclay Street.....   | \$1.00   |                 |
| 6 West 51st Street.....  | 1.00     |                 |
|  | 2.00     |                 |
| Miscellaneous adjustments.....   | 257.94   | 158,012.18      |
| NET ADJUSTMENTS.....   |          | 45,129.99       |
| BALANCE AT JULY 1st, 1919, AS ADJUSTED.....  |          | \$26,355,519.92 |
| DEDUCT:  |          |                 |
| Difference between Assessed Valuation 1916 and Assessed Valuation 1920 of Upper and Lower Estates                              |          | 882,000.00      |
|  |          | 25,473,519.92   |
| ADD:   |          |                 |
| Excess of Income over Expenses for maintenance for fiscal year ended June 30th, 1920.....                                      |          | 71,590.93       |
| BALANCE AT JUNE 30TH, 1920.....  |          | \$25,545,110.85 |



**LINGLEY, BAIRD & DIXON**  
**ACCOUNTANTS AND AUDITORS**  
NEW YORK AND LONDON .

RICHARD T. LINGLEY, C.P.A.  
JOHN J. BAIRD, C.A.  
FRANK E. DIXON, F.C.A.

Members of the American Institute of Accountants

**LONDON OFFICE**  
Eldon Street House, Eldon Street, E. C. 2  
Cable Address: "Proof" London

CABLE ADDRESS "AUDITORS" NEW YORK

NO. 120 BROADWAY (EQUITABLE BUILDING)  
NEW YORK, NOVEMBER 10TH, 1920

**CERTIFICATE**

We have examined the books and records of the Treasurer of Columbia University for the fiscal year ended June 30th, 1920, and we are satisfied as to the general correctness of the accounts. The Cash at Banks and on hand has been verified by us and the securities representing the invested funds have either been produced to us or verified by certificates received from the depositaries. The Income receivable from invested funds and all other income shown by the books of the University has been duly accounted for and payments therefrom have been sufficiently vouched.

The securities owned are carried either at their purchase price or at the market value at the date of their acquisition by gift.

The Academic Properties, covering Land, Buildings and Equipment are carried in the accounts at cost. The properties known as The Upper and Lower Estates are carried at 1920 New York City Assessed Valuations. The other properties of the University, mainly rental properties, are carried at cost, cost and carrying charges, and in some instances at nominal values. From the active rental properties, Reserves for Obsolescence have been deducted. These valuations appear to us to be conservative.

On the basis stated above, WE HEREBY CERTIFY that the Balance Sheet submitted herewith is in accordance with the books, and in our opinion, fairly states the financial condition of the University at June 30th, 1920.

(Signed) LINGLEY, BAIRD & DIXON,  
*Accountants and Auditors.*

**ARREARS OF RENT, JUNE 30, 1920**

|  |                     |
|--|---------------------|
| Rents Receivable from Upper and Lower Estates..... | \$663,327.98        |
| Rents Collected in 1919-1920.....                  | 646,266.66          |
| Total Arrears, June 30, 1920.....                  | <u>\$ 17,061.32</u> |

**UPPER ESTATES**

|                        |            |           |
|------------------------|------------|-----------|
| 43 West 48 Street..... | \$1,986.00 |           |
| 61 " 48 " .....        | 848.50     |           |
| 64 " 49 " .....        | 931.88     |           |
| 68 " 49 " .....        | 662.50     |           |
| 37 " 49 " .....        | 646.50     |           |
| 39 " 49 " .....        | 1,129.00   |           |
| 57 " 49 " .....        | 844.50     |           |
| 48 " 50 " .....        | 877.19     |           |
| 25 " 50 " .....        | 2,174.00   |           |
| 51 " 50 " .....        | 625.50     |           |
| 62 " 51 " .....        | .75        | 10,726.32 |

**LOWER ESTATES**

|                               |            |          |
|-------------------------------|------------|----------|
| 239-243 Greenwich Street..... | \$1,750.00 |          |
| 50 Murray Street.....         | 700.00     |          |
| 52 Murray Street.....         | 625.00     |          |
| 54 Murray Street.....         | 625.00     |          |
| 30-36 Park Place.....         | 2,625.00   | 6,325.00 |

**BUSINESS PROPERTIES**

|                      |         |                      |
|----------------------|---------|----------------------|
| 91-93 Ninth Ave..... | \$10.00 | 10.00                |
|                      |         | <u>\$ 17,061.32*</u> |

\*This amount has been reduced since June 30th to \$1,750.00.

**RECEIPTS AND DISBURSEMENTS OF INCOME OF SPECIAL FUNDS FOR THE YEAR ENDING  
JUNE 30, 1928**

|   | Debit<br>Balances<br>June 30,<br>1919 | Credit<br>Balances<br>June 30,<br>1919 | Received<br>1919-1920 | Total<br>Credits | Expended<br>1919-1920 | Debit<br>Balances,<br>June 30,<br>1920 | Credit<br>Balances,<br>June 30,<br>1920 |
|---|---------------------------------------|--|-----------------------|------------------|-----------------------|--|---|
| Adams Fund.....                                 | .....                                 | \$6,276.33                             | \$2,100.00            | \$8,376.33       | \$2,115.66            | .....                                  | \$6,260.67                              |
| Aldrich Scholarship.....                        | .....                                 | 225.00                                 | 300.11                | 525.11           | 412.50                | .....                                  | 112.61                                  |
| Anonymous Fund for Church and Choral Music..... | \$13,595.23                           | .....                                  | 5,310.96              | Dr. 8,284.27     | 5,556.37              | \$13,840.64                            | .....                                   |
| Art Professorship Fund.....                     | .....                                 | 7,778.80                               | 4,639.65              | 12,418.45        | (1) 6,662.16          | .....                                  | 5,756.29                                |
| Avery Architectural Library Fund.....           | .....                                 | 831.81                                 | 2,740.46              | 3,572.27         | 3,136.33              | .....                                  | 435.94                                  |
| Barnard Fellowship Fund.....                    | .....                                 | 1,347.48                               | 663.83                | 2,011.31         | .....                 | .....                                  | 2,011.31                                |
| Barnard Library Fund.....                       | .....                                 | 3,177.35                               | 5,027.76              | 8,205.11         | (2) 5,803.93          | .....                                  | 2,401.18                                |
| Barnard (Margaret) Fund.....                    | .....                                 | .....                                  | 1,077.53              | 1,077.53         | (3) 1,077.53          | .....                                  | .....                                   |
| Beck Prize Fund.....                            | .....                                 | 162.52                                 | 531.08                | 693.60           | 356.24                | .....                                  | 337.36                                  |
| Beck Scholarship Fund.....                      | .....                                 | .....                                  | 132.76                | 132.76           | 82.50                 | .....                                  | 50.26                                   |
| Beckman (Gerard) Fund.....                      | .....                                 | .....                                  | 131.25                | 131.25           | .....                 | .....                                  | 131.25                                  |
| Beer Lecture Fund.....                          | .....                                 | 4,578.89                               | 663.83                | 5,242.72         | .....                 | .....                                  | 5,242.72                                |
| Bennett Prize Fund.....                         | .....                                 | 87.25                                  | 66.38                 | 153.63           | .....                 | .....                                  | 153.63                                  |
| Bergh Fund.....                                 | .....                                 | 8,458.14                               | 6,638.00              | 15,096.14        | 6,230.96              | .....                                  | 8,865.18                                |
| Blumenthal Endowment Fund.....                  | .....                                 | 4,667.68                               | 5,750.00              | 10,417.68        | 3,579.91              | .....                                  | 6,837.77                                |
| Brainard (Edward Sutliff) Memorial Fund.....    | .....                                 | .....                                  | 50.20                 | 50.20            | 50.00                 | .....                                  | .20                                     |
| Bridgham Fellowship Fund.....                   | .....                                 | 901.28                                 | 1,158.79              | 2,060.07         | 1,500.00              | .....                                  | 560.07                                  |
| Brunner Prize Fund.....                         | .....                                 | 11.44                                  | 77.69                 | 89.13            | .....                 | .....                                  | 89.13                                   |
| Burgess (Annie P.) Fund.....                    | .....                                 | .....                                  | 4,150.55              | 4,150.55         | (4) 4,150.55          | .....                                  | .....                                   |
| Burgess (Annie P.) Scholarship Fund.....        | .....                                 | 100.00                                 | 307.77                | 407.77           | 412.50                | 4.73                                   | .....                                   |
| Burgess (Daniel M.) Scholarship Fund.....       | .....                                 | 347.75                                 | 307.77                | 655.52           | 412.50                | .....                                  | 243.02                                  |
| Burgess (John W.) Fund.....                     | .....                                 | .....                                  | 4,349.00              | 4,258.92         | (5) 4,022.22          | .....                                  | 236.70                                  |
| Butler Scholarship Fund.....                    | 90.08                                 | .....                                  | 342.50                | 391.26           | 223.76                | .....                                  | 167.50                                  |
| Butler (N. M.) Medal Fund.....                  | .....                                 | 48.76                                  | 179.27                | 251.30           | 325.00                | 73.70                                  | .....                                   |
| Campbell Scholarship Fund.....                  | .....                                 | 72.03                                  | 400.32                | 400.32           | 247.50                | .....                                  | 152.82                                  |
| Carpentier (E. R.) Fund.....                    | .....                                 | .....                                  | 16,595.25             | 16,595.25        | 13,083.19             | .....                                  | 3,512.06                                |

|  |           |           |            |            |               |          |           |
|--|-----------|-----------|------------|------------|---------------|----------|-----------|
| Carpenter (H. W.) Fund.....                    | 3,937.02  | 39,893.40 | 43,830.42  | 43,830.42  | 43,830.42     | .....    | .....     |
| Carpentier (J. S.) Fund.....                   | 29,246.32 | 19,923.17 | 49,169.49  | 49,169.49  | 23,193.05     | .....    | 25,976.44 |
| Center Fund.....                               | .....     | 11,816.94 | 11,700.18  | 11,700.18  | 5,749.69      | .....    | 5,950.49  |
| Joseph P. Chamberlain Endowment Fund.....      | 116.76    | 7,500.00  | 8,275.00   | 8,275.00   | 10,248.35     | 1,973.35 | .....     |
| Chandler (C. F.) Fund.....                     | 775.00    | 455.33    | 758.37     | 758.37     | 337.93        | .....    | 420.44    |
| Chanler Prize Fund.....                        | 303.04    | 44.85     | 240.20     | 240.20     | .....         | .....    | 240.20    |
| Chapel Music Fund.....                         | 43.28     | 60.46     | 103.74     | 103.74     | .....         | .....    | 103.74    |
| Cheesman (T. M.) Fund.....                     | .....     | 200.00    | 200.00     | 200.00     | .....         | .....    | 200.00    |
| Class of 1848 Scholarship Fund.....            | 92.44     | 663.80    | 756.24     | 756.24     | 504.94        | .....    | 251.30    |
| Class of 1885 Mines Fund.....                  | 435.58    | 670.66    | 1,106.24   | 1,106.24   | 435.58        | .....    | 670.66    |
| Class of 1888 Mines Fund.....                  | 33.00     | 19.73     | 52.73      | 52.73      | .....         | .....    | 52.73     |
| Class of 1889 Medal Fund.....                  | 84.22     | 26.61     | 110.83     | 110.83     | 70.00         | .....    | 40.83     |
| Class of 1892 Arts and Mines Fund.....         | 321.89    | 325.65    | 647.54     | 647.54     | 370.00        | .....    | 277.54    |
| Class of 1895 Arts and Mines Fund.....         | .....     | 318.75    | 318.75     | 318.75     | .....         | .....    | 318.75    |
| Class of 1901 Decennial Fund.....              | 60.15     | 92.39     | 132.54     | 132.54     | 60.15         | .....    | 92.39     |
| Class of 1905 Fund.....                        | 70.26     | 56.86     | 127.12     | 127.12     | (*) 127.12    | .....    | .....     |
| Collins (Perry McDonough) Fund.....            | 13,692.35 | 28,686.46 | 42,378.81  | 42,378.81  | 24,989.21     | .....    | 17,389.60 |
| Columbia House Fund.....                       | .....     | 414.79    | 414.79     | 414.79     | (*) 414.79    | .....    | .....     |
| Columbia Hudson-Fulton Prize Fund.....         | 123.75    | 66.35     | 190.10     | 190.10     | .....         | .....    | 190.10    |
| Columbia University Football Assoc'n Fund..... | 290.31    | 296.36    | 586.67     | 586.67     | (*) 586.67    | .....    | .....     |
| Convers Prize Fund.....                        | 54.13     | 54.50     | 108.63     | 108.63     | 54.13         | .....    | 54.50     |
| Cotheal Fund.....                              | 434.28    | 1,096.24  | 1,530.52   | 1,530.52   | 609.38        | .....    | 921.14    |
| Crocker Research Fund.....                     | 41,058.85 | 65,254.99 | 106,313.84 | 106,313.84 | (*) 64,578.41 | .....    | 41,735.43 |
| Crosby Collection of Lantern Slides Fund.....  | 48.56     | 102.05    | 150.61     | 150.61     | 48.50         | .....    | 102.11    |
| Currier Fund.....                              | 3,096.02  | 3,327.81  | 6,423.83   | 6,423.83   | 3,537.72      | .....    | 2,886.11  |
| Curtis Fellowship Fund.....                    | 993.88    | 663.84    | 1,657.72   | 1,657.72   | 618.75        | .....    | 1,038.97  |
| Curtis Medal Fund.....                         | 209.15*   | 86.32     | 295.47     | 295.47     | .....         | .....    | 295.47    |
| Cutting Fund.....                              | 14,025.15 | .....     | 14,025.15  | 14,025.15  | 6,483.37      | .....    | 7,541.78  |
| Cutting Jr. Fellowship Fund.....               | .....     | 600.00    | 600.00     | 600.00     | 600.00        | .....    | .....     |
| Da Costa Professorship Fund.....               | .....     | 5,746.05  | 5,746.05   | 5,746.05   | 3,571.29      | .....    | 2,174.76  |
| Darling Prize Fund.....                        | 43.90     | 77.09     | 120.99     | 120.99     | 43.92         | .....    | 77.07     |
| Dean Lung Fund.....                            | 13,086.37 | 14,979.59 | 28,065.96  | 28,065.96  | 3,051.62      | .....    | 25,014.34 |
| Deutscher Verein Prize Fund.....               | 41.25     | 49.19     | 90.44      | 90.44      | 41.25         | .....    | 49.19     |
| DeWitt Scholarship Fund.....                   | 321.82    | 767.42    | 1,089.24   | 1,089.24   | 631.20        | .....    | 458.04    |

|  | Debit<br>Balances<br>June 30,<br>1919 | Credit<br>Balances<br>June 30,<br>1919 | Received<br>1919-1920 | Total<br>Credits | Expended<br>1919-1920 | Debit<br>Balances,<br>June 30,<br>1920 | Credit<br>Balances,<br>June 30,<br>1920 |
|--|---------------------------------------|--|-----------------------|------------------|-----------------------|--|---|
| Drieler Classical Fund.....            | .....                                 | \$239.62                               | \$696.10              | \$935.72         | \$158.31              | .....                                  | \$777.41                                |
| Dyckman Fund.....                      | .....                                 | 425.87                                 | 678.62                | 1,104.49         | 400.00                | .....                                  | 704.49                                  |
| Earle Prize Fund.....                  | .....                                 | 53.74                                  | 83.70                 | 137.44           | 53.74                 | .....                                  | 83.70                                   |
| Eaton Professorship Fund.....          | .....                                 | .....                                  | 6,635.48              | 6,635.48         | 4,125.00              | .....                                  | 2,510.48                                |
| Einstein Fund.....                     | .....                                 | 4.31                                   | 322.40                | 326.71           | .....                 | .....                                  | 326.71                                  |
| Elberg Fund.....                       | \$6.00                                | .....                                  | 90.00                 | 84.00            | 50.00                 | .....                                  | 34.00                                   |
| Emmons Memorial Fund.....              | .....                                 | 2,431.60                               | 834.32                | 3,265.92         | 1,200.00              | .....                                  | 2,065.92                                |
| Fine Arts Endowment Fund.....          | .....                                 | 3,731.67                               | 9,000.00              | 12,731.67        | (10) 12,731.67        | .....                                  | .....                                   |
| Fire Insurance Fund.....               | .....                                 | .....                                  | 2,000.00              | 2,000.00         | 2,000.00              | .....                                  | .....                                   |
| Garth Fund.....                        | .....                                 | 673.76                                 | 1,082.53              | 1,756.29         | 678.75                | .....                                  | 1,077.54                                |
| Gebhard Fund.....                      | .....                                 | .....                                  | 1,327.62              | 1,327.62         | 825.00                | .....                                  | 502.62                                  |
| Germanic Fund.....                     | .....                                 | .....                                  | 1,480.42              | 1,480.42         | 612.50                | .....                                  | 867.92                                  |
| German Lecture Fund.....               | .....                                 | 50.77                                  | 77.90                 | 128.67           | .....                 | .....                                  | 128.67                                  |
| Gilder Fund.....                       | .....                                 | 243.99                                 | 3,156.03              | 3,400.02         | 1,968.00              | .....                                  | 1,440.02                                |
| Goldschmidt Fellowship Fund.....       | .....                                 | 4.80                                   | 1,084.11              | 1,088.91         | 670.00                | .....                                  | 418.91                                  |
| Gottlieb Lecture Fund.....             | .....                                 | 23.46                                  | 679.95                | 703.41           | 500.00                | .....                                  | 203.41                                  |
| Gottseger Fellowship Fund.....         | .....                                 | 513.36                                 | 630.67                | 1,144.03         | 783.74                | .....                                  | 360.29                                  |
| Green Prize Fund.....                  | .....                                 | 50.00                                  | 50.00                 | 100.00           | 50.00                 | .....                                  | 50.00                                   |
| Hall Scholarship Fund.....             | .....                                 | 1,507.01                               | 782.33                | 2,289.34         | 2,072.25              | .....                                  | 217.09                                  |
| Hamilton (Adelaide) Fund.....          | .....                                 | 102.50                                 | 50.23                 | 152.73           | .....                 | .....                                  | 152.73                                  |
| Harriman Fund.....                     | .....                                 | .....                                  | 5,165.98              | 4,969.10         | 4,906.24              | .....                                  | 62.86                                   |
| Hepburn (A. Barton) Fund.....          | .....                                 | 4,800.00                               | 19,142.50             | 23,942.50        | 17,000.00             | .....                                  | 6,942.50                                |
| Howe Legacy.....                       | 26.00                                 | .....                                  | 26.00                 | .....            | .....                 | .....                                  | .....                                   |
| Illig Fund.....                        | .....                                 | 60.74                                  | 143.03                | 203.77           | .....                 | .....                                  | 203.77                                  |
| Indo-Iranian Fund.....                 | .....                                 | .....                                  | 675.00                | 675.00           | 675.00                | .....                                  | .....                                   |
| James (D. Willis) Fund.....            | .....                                 | 250.00                                 | 6,637.10              | 6,887.10         | 4,375.00              | .....                                  | 2,512.10                                |
| Jefferson Statue Maintenance Fund..... | .....                                 | .....                                  | 69.62                 | 69.62            | (11) 69.62            | .....                                  | .....                                   |
| Kennedy Endowment Fund.....            | .....                                 | 1,393.65                               | 111,488.17            | 112,881.82       | (12) 112,881.82       | .....                                  | .....                                   |
| Langeloth Fund.....                    | .....                                 | .....                                  | 263.02                | 263.02           | (13) 263.02           | .....                                  | .....                                   |

# REPORT OF THE TREASURER

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|  |           |           |           |           |           |           |           |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Leaser (J. K.) Fund.....                           | 25.50     | 25.50     | 25.50     | 216.56    | 25.50     | 25.50     | 131.98    |
| Law Library Fund.....                              | 348.50    | 348.50    | 348.50    | 216.56    | 348.50    | 348.50    | 156.60    |
| Law Alumni Library Fund.....                       | 80.36     | 80.36     | 80.36     | 47.50     | 80.36     | 80.36     | 6,986.38  |
| Loubat Fund.....                                   | 467.82    | 467.82    | 467.82    | 467.82    | 467.82    | 467.82    | 626.60    |
| Loubat Professorship Fund.....                     | 6,642.95  | 6,642.95  | 6,642.95  | 3,256.57  | 6,642.95  | 6,642.95  | 149.36    |
| Malton Francisce Endowment Fund.....               | 300.13    | 300.13    | 300.13    | 300.13    | 300.13    | 300.13    | 4,007.18  |
| Manners Fund.....                                  | 166.80    | 166.80    | 166.80    | 226.71    | 166.80    | 166.80    | 47.22     |
| Mathematical Prize Fund.....                       | 355.60    | 355.60    | 355.60    | 226.71    | 355.60    | 355.60    | 461.05    |
| McKim Fellowship Fund.....                         | 1,327.62  | 1,327.62  | 1,327.62  | 1,650.00  | 1,327.62  | 1,327.62  | 215.25    |
| Member of the Class of '85 Fund.....               | 193.95    | 193.95    | 193.95    | 216.55    | 193.95    | 193.95    | 9.59      |
| Mitchell Fellowship Fund.....                      | 209.74    | 209.74    | 209.74    | 412.50    | 209.74    | 209.74    | 1,048.64  |
| Moffat Scholarship Fund.....                       | 82.50     | 82.50     | 82.50     | 41.61     | 82.50     | 82.50     | 76.18     |
| Montgomery (Robt. H.) Prize Fund.....              | 36        | 36        | 36        | 618.74    | 36        | 36        | 130.06    |
| Mosenthal Fellowship Fund.....                     | 1,169.54  | 1,169.54  | 1,169.54  | 341.25    | 1,169.54  | 1,169.54  | 5,792.38  |
| Mower (Sara E.) Fund.....                          | 51.00     | 51.00     | 51.00     | 341.25    | 51.00     | 51.00     | 419.25    |
| Openhym Fund.....                                  | 70        | 70        | 70        | 124.45    | 70        | 70        | 142.27    |
| Ordreux Prize Fund.....                            | 199.93    | 199.93    | 199.93    | 1,963.40  | 199.93    | 199.93    | 1,463.96  |
| Pell (Mary B.) Legacy.....                         | 2,102.43  | 2,102.43  | 2,102.43  | 2,350.72  | 2,102.43  | 2,102.43  | 1,637.60  |
| Perkins Fellowship Fund.....                       | 3,626.22  | 3,626.22  | 3,626.22  | 1,083.90  | 3,626.22  | 3,626.22  | 1,814.02  |
| Peters Jr. Engineering Fund.....                   | 369.25    | 369.25    | 369.25    | 419.25    | 369.25    | 369.25    | 51,012.69 |
| Philolexian Fund, Centennial Washington Prize..... | 50.86     | 50.86     | 50.86     | 142.27    | 50.86     | 50.86     | 5,159.25  |
| Philolexian Prize Fund.....                        | 57,623.91 | 57,623.91 | 57,623.91 | 52,112.74 | 57,623.91 | 57,623.91 | 368.79    |
| Phoenix Legacy.....                                | 1,087.00  | 1,087.00  | 1,087.00  | 618.75    | 1,087.00  | 1,087.00  | 25.11     |
| Proudfit (A. M.) Fund.....                         | 125.00    | 125.00    | 125.00    | 5,125.00  | 125.00    | 125.00    | 1,042.14  |
| Psychology Fund.....                               | 4,561.58  | 4,561.58  | 4,561.58  | 56,883.64 | 4,561.58  | 4,561.58  | 1,637.60  |
| Pulitzer Fund for School of Journalism.....        | 41,758.81 | 41,758.81 | 41,758.81 | 79,624.26 | 41,758.81 | 41,758.81 | 181.402   |
| Pulitzer Prize Fund.....                           | 4,271.71  | 4,271.71  | 4,271.71  | 18,366.41 | 4,271.71  | 4,271.71  | 51,012.69 |
| Pulitzer Scholarship Fund.....                     | 471.91    | 471.91    | 471.91    | 103.12    | 471.91    | 471.91    | 5,159.25  |
| Reisinger (Hugo) Fund.....                         | 66.36     | 66.36     | 66.36     | 41.25     | 66.36     | 66.36     | 368.79    |
| Rolker Prize Fund.....                             | 1,042.14  | 1,042.14  | 1,042.14  | 41.25     | 1,042.14  | 1,042.14  | 25.11     |
| Roosevelt Professorship Fund.....                  | 301.81    | 301.81    | 301.81    | 247.50    | 301.81    | 301.81    | 1,042.14  |
| Saunders Scholarship Fund.....                     | 3,779.43  | 3,779.43  | 3,779.43  | 1,608.75  | 3,779.43  | 3,779.43  | 54.32     |
| Schmerhorn (F. Augustus) Fellowship Fund.....      | 11.12     | 11.12     | 11.12     | 206.25    | 11.12     | 11.12     | 3,017.41  |
| Schmerhorn Scholarship Fund.....                   | 331.90    | 331.90    | 331.90    | 343.02    | 331.90    | 331.90    | 136.77    |

|  | Debit<br>Balances<br>June 30,<br>1919 | Credit<br>Balances<br>June 30,<br>1919 | Received<br>1919-1920 | Total<br>Credits | Expended<br>1919-1920 | Debit<br>Balances,<br>June 30,<br>1920 | Credit<br>Balances,<br>June 30,<br>1920 |
|--|---------------------------------------|--|-----------------------|------------------|-----------------------|--|---|
| Schiff Endowment Fund.....                     | .....                                 | \$9,841.74                             | \$6,384.25            | \$16,225.99      | \$2,000.00            | .....                                  | \$14,225.99                             |
| Schiff Fellowship Fund.....                    | .....                                 | .....                                  | 1,249.66              | 1,249.66         | 618.75                | .....                                  | 630.91                                  |
| Schurz Fellowship Fund.....                    | .....                                 | 909.98                                 | 663.79                | 1,573.77         | 825.00                | .....                                  | 748.77                                  |
| Schurz Library Fund.....                       | .....                                 | 405.29                                 | 693.81                | 1,099.10         | 548.38                | .....                                  | 550.72                                  |
| Seidl Fund.....                                | .....                                 | .....                                  | 1,152.64              | 1,152.64         | 1,122.64              | .....                                  | 30.00                                   |
| Shoemaker Fund.....                            | .....                                 | 243.91                                 | 664.37                | 908.28           | 508.04                | .....                                  | 400.24                                  |
| Social and Political Ethics Professorship Fund | .....                                 | 1,486.79                               | 2,740.44              | 4,227.23         | 3,417.50              | .....                                  | 809.73                                  |
| Stokes Prize Fund.....                         | .....                                 | 80.00                                  | 1,327.64              | 1,407.64         | 825.00                | .....                                  | 582.64                                  |
| Stuart Scholarship Fund.....                   | .....                                 | 11.25                                  | 399.39                | 410.64           | 247.50                | .....                                  | 163.14                                  |
| Toppan Prize Fund.....                         | .....                                 | 1.37                                   | 267.05                | 268.42           | 166.37                | .....                                  | 102.05                                  |
| Trowbridge Fund.....                           | .....                                 | 1,333.36                               | 708.68                | 2,042.04         | .....                 | .....                                  | 2,042.04                                |
| Tyndall Fund.....                              | .....                                 | 648.00                                 | 847.99                | 1,495.99         | .....                 | .....                                  | 1,495.99                                |
| Van Amringe Fund.....                          | .....                                 | 1.97                                   | 314.33                | 316.30           | 208.22                | .....                                  | 108.08                                  |
| Van Cortlandt (Robt. B.) Fund.....             | .....                                 | 1,569.31                               | 8,892.45              | 10,461.76        | 10,461.76             | .....                                  | .....                                   |
| Van Praag Fund.....                            | .....                                 | 777.44                                 | 262.84                | 1,040.28         | .....                 | .....                                  | 1,040.28                                |
| Waring Fund (Mrs. Waring).....                 | .....                                 | .....                                  | 4,958.23              | 4,958.23         | (18) 4,833.23         | .....                                  | 125.00                                  |
| Waring Fund (Miss Waring).....                 | .....                                 | 372.34                                 | 4,428.54              | 4,800.88         | 4,675.88              | .....                                  | 125.00                                  |
| Webber (John) Fund.....                        | .....                                 | .....                                  | 46.10                 | 46.10            | 46.10                 | .....                                  | .....                                   |
| Wheeler (John Vischer) Scholarship Fund.....   | .....                                 | 540.50                                 | 809.33                | 1,349.83         | 1,175.50              | .....                                  | 174.33                                  |
| Whedlock Fund.....                             | .....                                 | 48.92                                  | 1.22                  | 50.14            | 250.14                | .....                                  | .....                                   |
| Special Investments, Account Unassigned In-    | .....                                 | 69,305.90                              | 33,523.42             | 102,829.32       | (18) 70,049.58        | .....                                  | 32,779.74                               |
| come.....                                      | .....                                 | .....                                  | .....                 | .....            | .....                 | .....                                  | .....                                   |
| <b>MEDICAL SCHOOL</b>                          |                                       |  |                       |                  |                       |  |   |
| Blumenthal (George Jr.) Fund.....              | .....                                 | 994.99                                 | 3,246.76              | 4,241.75         | 4,224.56              | .....                                  | 17.19                                   |
| Bondy Fund.....                                | .....                                 | 12,672.92                              | 5,131.50              | 17,804.42        | .....                 | .....                                  | 17,804.42                               |
| Bull Memorial Fund.....                        | .....                                 | .....                                  | 1,983.37              | 1,983.37         | 1,000.00              | .....                                  | 364.85                                  |
| Carpentier (R. S.) Fund.....                   | .....                                 | 800.00                                 | 6,638.27              | 7,438.27         | 3,941.67              | .....                                  | 3,496.60                                |
| Clark Scholarship Fund.....                    | .....                                 | 613.98                                 | 972.04                | 1,586.02         | (22) 1,473.54         | .....                                  | 114.48                                  |
| Cock Prize Fund.....                           | .....                                 | 46.39                                  | 58.73                 | 105.12           | .....                 | .....                                  | 105.12                                  |

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|   |             |              |              |              |              |              |
|---|-------------|--------------|--------------|--------------|--------------|--------------|
| Craig Endowment Fund.....               | 1,620.92    | 1,620.92     | 1,620.92     | 1,620.92     | 1,620.92     | 1,620.92     |
| DeLamar (Joseph R.) Endowment Fund..... | 29,674.74   | 29,674.74    | 29,674.74    | 29,674.74    | 29,674.74    | 29,674.74    |
| Devendorf Scholarship Fund.....         | 435.84      | 435.84       | 435.84       | 435.84       | 435.84       | 435.84       |
| Doughty Scholarship Fund.....           | 12.50       | 12.50        | 12.50        | 12.50        | 12.50        | 12.50        |
| Du Bois Memorial Fund.....              | 125.00      | 125.00       | 125.00       | 125.00       | 125.00       | 125.00       |
| Grosvonor (Robert) Memorial Fund.....   | 10.35       | 10.35        | 10.35        | 10.35        | 10.35        | 10.35        |
| Haren Fund.....                         | 42.48       | 42.48        | 42.48        | 42.48        | 42.48        | 42.48        |
| Hartley Scholarship Fund.....           | 3.33        | 3.33         | 3.33         | 3.33         | 3.33         | 3.33         |
| Jacobi Ward Fund.....                   | 2,053.77    | 2,053.77     | 2,053.77     | 2,053.77     | 2,053.77     | 2,053.77     |
| Jacaway Library Fund.....               | 417.43      | 417.43       | 417.43       | 417.43       | 417.43       | 417.43       |
| Lee Fund.....                           | 949.95      | 949.95       | 949.95       | 949.95       | 949.95       | 949.95       |
| Martin (Frederick Townsend) Fund.....   | 325.00      | 325.00       | 325.00       | 325.00       | 325.00       | 325.00       |
| Miller Fund.....                        | 663.81      | 663.81       | 663.81       | 663.81       | 663.81       | 663.81       |
| Proudfit (M. M.) Scholarship Fund.....  | 4,413.56    | 4,413.56     | 4,413.56     | 4,413.56     | 4,413.56     | 4,413.56     |
| School of Dentistry Endowment Fund..... | 12,268.25   | 12,268.25    | 12,268.25    | 12,268.25    | 12,268.25    | 12,268.25    |
| Stoane Hospital for Women Fund.....     | 342.51      | 342.51       | 342.51       | 342.51       | 342.51       | 342.51       |
| Smith Prize Fund.....                   | 137.24      | 137.24       | 137.24       | 137.24       | 137.24       | 137.24       |
| Steers (James R.) Fund.....             | 847.26      | 847.26       | 847.26       | 847.26       | 847.26       | 847.26       |
| Stevens Prize Fund.....                 | 126.12      | 126.12       | 126.12       | 126.12       | 126.12       | 126.12       |
| Vanderbilt Clinic Endowment Fund.....   | 5,650.00    | 5,650.00     | 5,650.00     | 5,650.00     | 5,650.00     | 5,650.00     |
|   | \$79,548.33 | \$369,997.33 | \$778,085.72 | \$778,085.72 | \$829,961.30 | \$152,224.52 |
|   |             |              |              |              | 141,099.15   |              |
|   |             |              |              |              | \$688,862.15 |              |
|   |             |              |              |              |              | \$390,797.94 |

Less Transfers.....



## NOTES

|      |  |              |
|------|--|--------------|
| (1)  | Transferred to Principal Art Professorship Fund.....                         | \$ 6,662.16  |
| (2)  | Transferred to Barnard Medal Account.....                                    | 40.00        |
| (3)  | Transferred to Barnard Library Fund.....                                     | 1,077.53     |
| (4)  | Transferred to President's Emergency Fund.....                               | 4,150.55     |
| (5)  | Transferred to Premium Account John W. Burgess Fund.....                     | 22.22        |
| (6)  | Transferred to Principal Class of 1905 Fund.....                             | 127.12       |
| (7)  | Transferred to Income Germanistic Fund.....                                  | 414.79       |
| (8)  | Transferred to Investment Columbia University Football Association Fund..... | 586.67       |
| (9)  | Transferred to Crocker Research Building Account.....                        | 5,000.00     |
| (10) | Transferred to Principal Fine Arts Endowment Fund.....                       | 12,731.67    |
| (11) | Transferred to Principal Jefferson Statue Maintenance Fund.....              | 69.62        |
| (12) | Transferred to Premium Account Kennedy Fund.....                             | 3,452.56     |
| (13) | Transferred to President's Emergency Fund.....                               | 263.02       |
| (14) | Transferred to Loubat Prize Fund.....  | 467.82       |
| (15) | Transferred to Malson Franciscan Maintenance Account.....                    | 300.13       |
| (16) | Transferred to Pulitzer Fund for School of Journalism.....                   | 20,807.72    |
| (17) | Transferred to Shoemaker Loan Fund.....                                      | 225.00       |
| (18) | Transferred to Waring Fund (Miss Waring).....                                | 170.31       |
| (19) | Transferred to Premium Account Special Investments.....                      | 743.68       |
| (20) | Transferred to Funds not specifically invested (Special distribution).....   | 69,305.90    |
| (21) | Transferred to Blumenthal Loan Fund.....                                     | 1,623.37     |
| (22) | Transferred to Principal Clark Scholarship Fund.....                         | 300.06       |
| (23) | Transferred to Principal Frederick Townsend Martin Fund.....                 | 421.67       |
| (24) | Transferred to University Land Buildings and Equipment Account.....          | 11,122.92    |
| (25) | Transferred to Income of Sloane Hospital for Women Fund.....                 | 437.50       |
| (26) | Transferred to Capital Account.....  | 575.16       |
|      |  | <hr/>        |
|      |  | \$141,099.15 |

**GIFTS AND RECEIPTS FOR DESIGNATED PURPOSES. RECEIPTS AND DISBURSEMENTS  
FOR THE YEAR ENDING JUNE 30, 1920**

| ACCOUNTS   | Debit<br>Balances,<br>June 30,<br>1919 | Credit<br>Balances,<br>June 30,<br>1919 | Received<br>1919-1920 | Total<br>Credits | Expended<br>1919-1920 | Debit<br>Balances,<br>June 30,<br>1920 | Credit<br>Balances,<br>June 30,<br>1920 |
|--|--|---|-----------------------|------------------|-----------------------|--|---|
| <b>EDUCATIONAL ADMINISTRATION</b>                |  |   |                       |                  |                       |  |   |
| Salaries .....                                   |  |   |                       | (1) \$18,450.00  | \$18,450.00           |  |   |
| Lectures .....                                   |  | \$ 755.32                               | \$ 65.27              | 820.59           |                       |  | \$ 820.59                               |
| Women's War Work Committee .....                 |  |   | 231.56                | 231.56           | 140.21                |  | 91.35                                   |
| President's Emergency Fund .....                 |  | 3,974.53                                | 4,431.13              | 8,405.66         | (11) 316.82           |  | 8,088.84                                |
| Equipment for Military Activities .....          |  | 210.67                                  |                       | 210.67           |                       |  | 210.67                                  |
| President's Special Account .....                |  | 123.65                                  |                       | 123.65           |                       |  | 123.65                                  |
| President's War Preparation Fund .....           |  | 340.27                                  |                       | 340.27           |                       |  | 340.27                                  |
| Seligman (Isaac N.) Bequest .....                |  |   | 5,464.17              | 5,464.17         | (22) 1,554.32         |  | 3,909.85                                |
| Secretary's Special Account .....                |  | 22.08                                   |                       | 22.08            |                       |  | 22.08                                   |
| Military Training Course, Camp<br>Columbia ..... |  | 187.82                                  |                       | 187.82           |                       |  | 187.82                                  |
| Columbia Service Bureau in Paris .....           |  | 4,708.91                                | 470.60                | 5,179.51         | 3,067.05              |  | 2,112.46                                |
| Fund for Research .....                          |  | 495.58                                  | 175.10                | 670.68           | 326.52                |  | 344.16                                  |
| State Aid to Blind Pupils .....                  |  | 343.45                                  |                       | 343.45           |                       |  | 343.45                                  |
| State Aid to Deaf Pupils .....                   |  | 6.00                                    |                       | 6.00             |                       |  | 6.00                                    |
| American School in Jerusalem .....               |  |   | 100.00                | 100.00           | 100.00                |  |   |
| <b>COLUMBIA HOUSE :</b>                          |  |   |                       |                  |                       |  |   |
| Maintenance .....                                |  | 105.27                                  | 1,106.32              | 1,211.59         | (9) 1,439.43          | \$227.84                               |   |
| Emil Boas Library .....                          |  | 30.72                                   |                       | 30.72            |                       |  | 30.72                                   |
| <b>MAISON FRANCAISE:</b>                         |  |   |                       |                  |                       |  |   |
| Maintenance .....                                |  | 1,806.93                                | 300.13                | 2,107.06         | 2,455.82              | 348.76                                 |   |
| <b>DEPARTMENTAL:</b>                             |  |   |                       |                  |                       |  |   |
| Anthropology: Salaries .....                     |  |   |                       | (1) 1,000.00     | 1,000.00              |  |   |

| ACCOUNTS                                 | Debit<br>Balances,<br>June 30,<br>1919 | Credit<br>Balances,<br>June 30,<br>1919 | Received<br>1919-1920 | Total<br>Credits | Expended<br>1919-1920 | Debit<br>Balances,<br>June 30,<br>1920 | Credit<br>Balances,<br>June 30,<br>1920 |
|--|--|---|-----------------------|------------------|-----------------------|--|---|
| Anthropology: Research on the In-        |  | \$ 268.99                               | \$1,500.00            | \$ 1,768.99      | \$ 613.44             |  | \$1,155.55                              |
| dians of British Columbia.....           |  | 311.25                                  |                       | 311.25           |                       |  | 311.25                                  |
| Architecture: Ateller Fund.....          |  | 4,418.30                                | 180.83                | 4,599.13         |                       |  | 4,599.13                                |
| Astronomy: C. W. Bruce Fund.....         |  |   |                       | (1) 17,900.00    | 11,900.00             |  |   |
| Botany: Salaries.....                    |  |   |                       | 681.22           | (21) 681.22           |  |   |
| Chemical Engineering: Laboratory.....    |  | 681.22                                  |                       | (2) 1,133.36     | 1,133.36              |  |   |
| Chemistry: Food Chemistry: Salaries..... |  |   |                       | (3) 10,050.00    | 10,050.00             |  |   |
| Chemistry: Barnard: Salaries.....        |  |   |                       |                  |                       |  |   |
| Chemistry: Borden's Condensed            |  |   |                       |                  |                       |  |   |
| Milk Research.....                       |  |   | 16,000.00             | 16,000.00        | 5,879.93              |  | 10,120.07                               |
| Chemistry: Electro-Chemical Lab-         |  |   |                       |                  |                       |  |   |
| oratory Equipment Fund.....              |  | 611.93                                  |                       | 611.93           |                       |  | 611.93                                  |
| Chemistry: Laboratory in Have-           |  |   |                       |                  |                       |  |   |
| meyer Hall: Anonymous Gift.....          |  | 2,733.22                                |                       | 2,733.22         | (18) 2,306.25         |  | 426.97                                  |
| Chemistry: Quantitative Labora-          |  |   |                       |                  |                       |  |   |
| tory: Equipment.....                     |  |   | 2,306.25              | 2,306.25         | 2,306.25              |  |   |
| Chinese Printing Equipment.....          |  | 2,464.53                                |                       | 2,464.53         |                       |  | 2,464.53                                |
| Civil Engineering: Fire Testing          |  |   |                       |                  |                       |  |   |
| Station.....                             |  |   | 1,100.00              | 1,100.00         | 963.77                |  | 136.23                                  |
| Civil Engineering: Testing Labora-       |  |   |                       |                  |                       |  |   |
| tory.....                                |  | 1,401.17                                | 9,364.36              | 10,765.53        | 7,643.38              |  | 3,122.15                                |
| Economics: Salaries.....                 |  |   |                       | (1) 10,650.00    | 10,650.00             |  |   |
| English and Comparative Literature:      |  |   |                       |                  |                       |  |   |
| Salaries.....                            |  |   |                       | (1) 27,300.00    | 27,300.00             |  |   |
| Geology: Salaries.....                   |  |   |                       | (1) 6,350.00     | 6,350.00              |  |   |
| Germanic Languages: Salaries.....        |  |   |                       | (1) 6,850.00     | 6,850.00              |  |   |
| Germanic Languages: Collegiate           |  |   |                       |                  |                       |  |   |
| German Study Fund.....                   |  | 20.04                                   |                       | 20.04            |                       |  | 20.04                                   |

|  |          |               |               |       |          |
|--|----------|---------------|---------------|-------|----------|
| Germanic Languages: Equipment Fund.....                              | 72.77    | 72.77         | 72.77         | 72.77 | 72.77    |
| Germanic Languages: Schiller Fund.....                               | 7.65     | 7.65          | 7.65          | 7.65  | 7.65     |
| Greek and Latin: Salaries.....                                       |          | (1) 14,550.00 | 14,550.00     |       |          |
| History: Salaries.....   |          | (2) 9,850.00  | 9,850.00      |       |          |
| History: Special Equipment.....                                      | 38.65    | 38.65         |               |       | 38.65    |
| Indo-Iranian Languages: Publications.....                            | 1,000.00 | 1,000.00      |               |       | 1,000.00 |
| Indo-Iranian Languages: Salaries.....                                |          | 500.00        | 500.00        |       |          |
| Law School: Class of 1914, Law, for Medical Aid to Law Students..... | 75.00    | 75.00         |               |       | 75.00    |
| Law School, Contingent.....  | 325.00   | 325.00        |               |       |          |
| Law School, Richard H. Troy Gift.....                                | 2.00     | 2.00          | (18) 2.00     |       | 2.00     |
| Mathematics: Salaries.....   |          | (1) 13,350.00 | 13,350.00     |       |          |
| Mathematics: Promotion of Honor Work.....                            | 99.78    | 99.78         |               |       | 99.78    |
| Mechanical Engineering: Admiral Melville Fund.....                   | 560.86   | 560.86        |               |       | 560.86   |
| Mechanical Engineering: Gift and Sale of Shop Equipment.....         | 137.91   | 9.68          |               |       | 147.59   |
| Mechanical Engineering: Sale of Old Material.....                    | 30.35    |               | 30.35         |       | 30.35    |
| Metallurgical Research Laboratory: Equipment.....                    |          | 3,950.82      | 644.63        |       | 3,306.19 |
| Metalurgy: Electro-Metallurgical Equipment.....                      | 1,610.00 |               | (15) 1,610.00 |       |          |
| Metalurgy: Laboratory.....   | 1,102.99 |               | (15) 1,102.99 |       |          |
| Metalurgy: Salaries.....   | 700.00   | 700.00        | 700.00        |       |          |
| Metalurgy: Sale of Furnaces.....                                     | 400.00   | 400.00        |               |       | 400.00   |
| Metalurgy: Special Fund.....   | 409.67   | 409.67        |               |       | 409.67   |
| Mining and Metallurgy: Spec.'l Fund.....                             | 823.58   | 823.58        | (17) 823.58   |       |          |
| Music: Anonymous Gift for Choir.....                                 | 280.97   | 280.97        |               |       | 280.97   |
| Philosophy and Psychology: Salaries.....                             |          | (1) 12,100.00 | 12,100.00     |       |          |
| Philosophy, Mediaeval, Salaries.....                                 | 750.00   | 750.00        | 750.00        |       | 750.00   |

| ACCOUNTS   | Debit<br>Balances,<br>June 30,<br>1919 | Credit<br>Balances,<br>June 30,<br>1919 | Received<br>1919-1920 | Total<br>Credits | Expended<br>1919-1920 | Debit<br>Balances,<br>June 30,<br>1920 | Credit<br>Balances,<br>June 30,<br>1920 |
|--|--|---|-----------------------|------------------|-----------------------|--|---|
| Physical Education: Salaries.....                                      |  |   |                       | (1) \$11,600.00  | \$11,600.00           |  |   |
| Physics: Experimental: Marcellus<br>Hartley Research Laboratory....    |  | \$1,909.93                              | \$2,000.00            | 3,909.93         | 1,550.44              |  | \$2,359.49                              |
| Physics: Research.....   |  | 2,791.70                                |                       | 2,791.70         |                       |  | 2,791.70                                |
| Physics: Barnard: Salaries.....  |  |   |                       | (1) 6,550.00     | 6,550.00              |  |   |
| E. K. Adams Precision Laboratory.                                      |  | 625.12                                  | 27.00                 | 652.12           |                       |  | 652.12                                  |
| Public Law and Jurisprudence: Sal-<br>aries.....                       |  |   |                       | (1) 1,300.00     | 1,300.00              |  |   |
| Public Law and Jurisprudence: Leg-<br>islative Drafting Research Fund. |  | 4,789.63                                | 2,500.00              | 7,289.63         | 3,962.73              |  | 3,326.90                                |
| Religion: Salaries.....  |  |   |                       | (1) 2,500.00     | 2,500.00              |  |   |
| Romance Languages: Salaries.....                                       |  |   |                       | (1) 14,900.00    | 14,900.00             |  |   |
| Romance Languages: Support of<br>Journal of Romanic Philology....      |  | 250.00                                  |                       | 250.00           |                       |  | 250.00                                  |
| Romance Languages: Appropriation<br>for Lectures.....                  |  | 40.00                                   |                       | 40.00            |                       |  | 40.00                                   |
| School of Mines: A. S. Dwight Gift.                                    |  | 2,500.00                                |                       | 2,500.00         | 1,640.27              |  | 859.73                                  |
| Slavonic Languages: Salaries.....                                      |  |   | 1,225.00              | 1,225.00         | 1,225.00              |  |   |
| Social Science: Humane Education.                                      |  | 4,000.00                                |                       | 4,000.00         |                       |  | 4,000.00                                |
| Chapel Hymn-Book Fund.....   |  |   | 1,637.12              | 1,637.12         |                       |  | 1,637.12                                |
| Zoology: Salaries.....   |  |   |                       | (1) 12,050.00    | 12,050.00             |  |   |
| Zoology: Naples Zoological Station                                     |  | 500.00                                  |                       | 500.00           |                       |  | 500.00                                  |
| EXTENSION TEACHING:  |  |   |                       |                  |                       |  |   |
| Dental School Construction.....  |  |   | 104.59                | 104.59           |                       |  | 104.59                                  |
| Dental School Equipment.....   | \$221.75                               |   | 1,000.00              | 778.25           |                       |  | 778.25                                  |
| Department of Agriculture.....   |  | 3,270.46                                |                       | 3,270.46         | 1,648.50              |  | 1,621.96                                |
| Choral Music.....  |  | 353.03                                  |                       | 353.03           |                       |  | 353.03                                  |
| Courses in International Relations                                     |  | 450.00                                  |                       | 450.00           |                       |  | 450.00                                  |

## REPORT OF THE TREASURER

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|  |          |               |               |          |
|--|----------|---------------|---------------|----------|
| School of Business, Robert H. Montgomery Gift.....   | 1,000.00 | 1,000.00      | 561.26        | 438.74   |
| School of Business, Anonymous Gift.....              | 5,000.00 | 5,000.00      | (28) 1,500.00 | 3,500.00 |
| School of Business, for Business Library.....        | 1,500.00 | 1,500.00      | 1,145.88      | 354.12   |
| School of Dentistry.....                             | 4,000.00 | 4,000.00      |               | 4,000.00 |
| MEDICAL SCHOOL                                       |          |               |               |          |
| Administration.....                                  |          | (5) 1,545.45  | 1,545.45      |          |
| Bacteriology: Interdepartmental.....                 |          |               |               |          |
| Social Hygiene.....                                  | 4,200.00 | 4,200.00      | 622.79        | 3,577.21 |
| Biological Chemistry: Salaries.....                  |          | (2) 680.00    | 680.00        |          |
| Departmental Appropriation.....                      | 50.00    | 50.00         |               | 50.00    |
| Biological Chemistry: Biochemical Research Fund..... | 2,299.85 | 2,299.85      |               | 2,299.85 |
| Biological Chemistry: Special Printing.....          | 483.50   | 483.50        |               | 483.50   |
| Neurology: Departmental Appropriation.....           |          |               |               |          |
| Pathology: Salaries.....                             | 1,306.42 | 1,306.42      | 1,306.42      |          |
| Pharmacology: Special Instrument Fund.....           |          | (3) 4,800.02  | 4,800.02      |          |
| Physiology: Lee Gift.....                            | 1,017.58 | 1,017.58      | 424.03        | 593.55   |
| Pollomyelitis Research Fund.....                     | 583.35   | 1,919.35      | 1,672.00      | 247.35   |
| Practice of Medicine: Salaries.....                  | 80.28    | 80.28         |               | 80.28    |
| Special Photograph Fund.....                         |          | (4) 13,150.00 | 13,150.00     |          |
| Surgery: Salaries.....                               | 3,000.00 | 3,000.00      | 3,000.00      |          |
| Surgery: Mackay Fund for Surgical Research.....      |          | (4) 8,300.00  | 8,300.00      |          |
| Surgery: Harriman Fund for Surgical Research.....    | 895.70   | 12,895.70     | 12,659.60     | 236.10   |
| East River Homes Gift: Vanderbilt Clinic.....        | 38.46    | 38.46         |               | 38.46    |
|  | 9,000.00 | 9,000.00      | 9,000.00      |          |

| ACCOUNTS  | Debit<br>Balances,<br>June 30,<br>1919 | Credit<br>Balances,<br>June 30,<br>1919 | Received<br>1919-1920 | Total<br>Credits | Expended<br>1919-1920 | Debit<br>Balances,<br>June 30,<br>1920 | Credit<br>Balances,<br>June 30,<br>1920 |
|---|--|---|-----------------------|------------------|-----------------------|--|---|
| TEACHERS COLLEGE: Salaries.....                               |  |   |                       | (*) \$294,833.32 | \$294,833.32          |  |   |
| RETIRING ALLOWANCES.....                                      |  |   |                       | (*) 45,433.09    | 45,433.09             |  |   |
| WIDOWS' ALLOWANCES.....                                       |  |   |                       | (*) 12,664.17    | 12,664.17             |  |   |
| FELLOWSHIPS, SCHOLARSHIPS & PRIZES                            |  |   |                       |                  |                       |  |   |
| E. K. Adams Special Research Fel-<br>lowship.....             |  | \$2,000.00                              |                       | 2,000.00         | 1,000.00              |  | \$1,000.00                              |
| Bakelite Research Fellowship.....                             |  |   | \$1,000.00            | 1,000.00         | 1,000.00              |  |   |
| Du Pont Fellowship.....                                       |  | 750.00                                  |                       | 750.00           | 750.00                |  |   |
| Borzykowski Research Fellowship,<br>Chemical Engineering..... |  |   |                       | 1,200.00         |                       |  | 1,200.00                                |
| Industrial Research Fellowship,<br>Chemical Engineering.....  |  |   |                       |                  | (14) 1,000.00         |  | 414.83                                  |
| Bleyer (Amanda) Scholarship.....                              |  | 1,414.83                                | 250.00                | 250.00           | 250.00                |  |   |
| DuPont Scholarships in Chemistry.....                         |  |   | 750.00                | 750.00           | 750.00                |  |   |
| Gano Dunn Scholarship.....                                    |  |   |                       |                  | 250.00                | \$250.00                               |   |
| Jones Scholarship.....  |  | 200.00                                  | 200.00                | 400.00           | 200.00                |  | 200.00                                  |
| McClmonds Scholarship.....                                    |  | 101.25                                  | 1,300.00              | 1,401.25         | 1,300.00              |  | 101.25                                  |
| New York Diocesan Fellowship.....                             |  | 250.00                                  |                       | 250.00           |                       |  | 250.00                                  |
| New York State Scholarships.....                              |  | 100.00                                  | 28,615.00             | 28,715.00        | 28,665.00             |  | 50.00                                   |
| Pan-Hellenic Union Scholarship.....                           |  |   | 100.00                | 100.00           | 100.00                |  |   |
| Young Men's Christian Association<br>Scholarship.....         |  |   | 50.00                 | 50.00            | 50.00                 |  |   |
| Research Fellowship in Physiology.....                        |  | 1,000.00                                |                       | 1,000.00         |                       |  | 1,000.00                                |
| Research Fellowship in Medicine.....                          |  | 2,145.92                                | 2,400.00              | 4,545.92         | 2,604.24              |  | 1,941.68                                |
| Special Alumni Association Scholar-<br>ships.....             |  | 6.25                                    |                       | 6.25             |                       |  | 6.25                                    |

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|---|------------|-----------|--------|------------|----------|------------|------------|
| Special Scholarships.....   | 52.00      | .....     | .....  | 52.00      | .....    | .....      | 52.00      |
| Special University Scholarship in History.....                    | 150.00     | .....     | .....  | 150.00     | .....    | .....      | 150.00     |
| Alumni Association Prize.....                                     | 103.50     | .....     | .....  | 143.50     | 50.00    | 50.00      | 143.50     |
| Barnard Medal.....  | .....      | 40.00     | .....  | 600.00     | .....    | .....      | 600.00     |
| Chanler Historical Prize.....                                     | 4,274.00   | .....     | .....  | 4,741.82   | .....    | .....      | 4,741.82   |
| Loubat Prizes.....  | .....      | 467.82    | .....  | .....      | .....    | .....      | .....      |
| New York State Society of Certified Public Accountants Prize..... | 500.00     | .....     | .....  | 40.00      | 40.00    | .....      | .....      |
| Van Gelder Scholarships.....                                      | .....      | 21.25     | .....  | 521.25     | (18)     | 521.25     | .....      |
| <b>BUILDINGS AND GROUNDS:</b>                                     |            |           |        |            |          |            |            |
| Installing and Equipping Laboratory at Havenmeyer Hall.....       | 600.00     | .....     | .....  | 600.00     | (7)      | 3,587.49   | 600.00     |
| Additions to Medical School.....                                  | .....      | .....     | .....  | .....      | .....    | 3,587.49   | .....      |
| Medical and Surgical Equipment Fund.....                          | .....      | 1,452.21  | .....  | 1,452.21   | .....    | .....      | 1,452.21   |
| Improvements to Boat House.....                                   | 2.17       | .....     | .....  | 2.17       | .....    | .....      | 2.17       |
| Gift for Stadium.....   | .....      | 50.30     | .....  | 50.30      | .....    | .....      | 50.30      |
| School of Dentistry, New Building.....                            | 825,615.84 | .....     | .....  | .....      | (10)     | 7,500.00   | .....      |
| Building Construction Fund.....                                   | .....      | 80,630.82 | .....  | 906,246.66 | (9)      | 501,347.25 | 404,899.41 |
| Van Amringe Memorial.....   | .....      | 1,614.80  | .....  | 1,614.80   | .....    | .....      | 1,614.80   |
| <b>LIBRARY:</b>   |            |           |        |            |          |            |            |
| Salaries.....   | .....      | .....     | .....  | (1)        | 1,800.00 | 1,800.00   | .....      |
| Purchase of Books and Serials.....                                | 31.35      | .....     | .....  | 979.89     | .....    | 258.39     | 690.15     |
| Incidentals.....  | 17.95      | .....     | .....  | 609.23     | .....    | 522.52     | 68.76      |
| American Law Reports Fund.....                                    | .....      | 896.01    | .....  | .....      | .....    | 627.80     | 268.21     |
| Barnard Library.....  | .....      | .....     | .....  | 6.20       | .....    | .....      | 6.20       |
| Committee of Fifty Fund.....                                      | .....      | 200.79    | .....  | 86.01      | .....    | 25.10      | 261.70     |
| Comparative Literature: Dramatic Museum.....                      | .....      | .....     | 105.00 | .....      | .....    | .....      | 105.00     |
| Crane (Chas. R.) Fund.....  | .....      | 21.57     | .....  | 21.57      | .....    | 2.24       | 19.33      |



| ACCOUNTS  | Debit<br>Balances,<br>June 30,<br>1919 | Credit<br>Balances,<br>June 30,<br>1919 | Received<br>1919-1920 | Total<br>Credits | Expended<br>1919-1920 | Debit<br>Balances,<br>June 30,<br>1920 | Credit<br>Balances,<br>June 30,<br>1920 |
|---|--|---|-----------------------|------------------|-----------------------|--|---|
| Emergency Fund.....   | .....                                  | .....                                   | \$ 302.55             | \$ 302.55        | .....                 | .....                                  | \$ 302.55                               |
| Griscom Gift.....   | .....                                  | \$ 50.00                                | 25.00                 | 75.00            | .....                 | .....                                  | 75.00                                   |
| Italian Library Gift.....   | .....                                  | .....                                   | 5.00                  | 5.00             | .....                 | .....                                  | 5.00                                    |
| Lewisohn Dissertation Fund.....                                       | .....                                  | 575.82                                  | .....                 | 575.82           | \$ 295.90             | .....                                  | 279.92                                  |
| Loeb (James) Fund.....  | .....                                  | 612.15                                  | 175.00                | 787.15           | 357.83                | .....                                  | 429.32                                  |
| Low (William G.) Fund.....  | .....                                  | 449.61                                  | 250.00                | 699.61           | 401.67                | .....                                  | 297.94                                  |
| Law School: Alumni Fund.....  | .....                                  | .....                                   | 10.00                 | 10.00            | .....                 | .....                                  | 10.00                                   |
| Maison Francaise Books.....   | .....                                  | 544.63                                  | .....                 | 544.63           | 500.00                | .....                                  | 44.63                                   |
| Maison Francaise Bulletin.....  | .....                                  | 82.30                                   | .....                 | 82.30            | 17.98                 | .....                                  | 64.32                                   |
| Montgomery (Robert H.) Gift for<br>purchase of Books for the Library  | .....                                  | .....                                   | 500.00                | 500.00           | 265.07                | .....                                  | 234.93                                  |
| Surgical Journals.....  | .....                                  | .35                                     | .....                 | .35              | .....                 | .....                                  | .35                                     |
| Alumni Association Gift for Colum-<br>bian Room in University Library | .....                                  | 18.04                                   | .....                 | 18.04            | .....                 | .....                                  | 18.04                                   |
| BUSINESS ADMINISTRATION:  | .....                                  | .....                                   | .....                 | .....            | .....                 | .....                                  | .....                                   |
| Salaries.....   | .....                                  | .....                                   | .....                 | (1) 4,750.00     | 4,750.00              | .....                                  | .....                                   |
| ANONYMOUS GIFT FOR CURRENT NEEDS                                      | .....                                  | 16,782.44                               | 61.57                 | 16,844.01        | (9) 876.26            | .....                                  | 15,967.75                               |
| BARNARD COLLEGE: Salaries.....  | .....                                  | .....                                   | (1) 197,850.00        | .....            | .....                 | .....                                  | .....                                   |
| CARNEGIE FOUNDATION GRANTS.....                                       | .....                                  | .....                                   | (4) 58,097.26         | .....            | .....                 | .....                                  | .....                                   |
| HARNESSE FUND.....  | .....                                  | .....                                   | (6) 26,250.02         | .....            | .....                 | .....                                  | .....                                   |
| TEACHERS COLLEGE: Salaries.....                                       | .....                                  | .....                                   | (8) 296,646.68        | .....            | .....                 | .....                                  | .....                                   |
| VANDERBILT CLINIC.....  | .....                                  | .....                                   | (9) 1,545.45          | .....            | .....                 | .....                                  | .....                                   |

|   |          |              |              |                |                |             |              |
|---|----------|--------------|--------------|----------------|----------------|-------------|--------------|
| CHANDLER MUSEUM.....                              | .....    | 692.16       | 22.05        | 714.21         | 12.00          | .....       | 702.21       |
| CRANE GIFT FOR LECTURES IN SUMMER<br>SESSION..... | .....    | 200.00       | .....        | 200.00         | .....          | .....       | 200.00       |
| FLAGLER GIFT FOR UNIVERSITY ORCHESTRA<br>.....    | .....    | 50.00        | .....        | 50.00          | .....          | .....       | 50.00        |
| TOTALS.....                                       | \$271.05 | \$923,642.25 | \$800,242.46 | \$1,723,613.66 | \$1,213,762.60 | \$11,964.09 | \$521,815.15 |
| Less Deductions as detailed below .....           |          |              |              |                |                |             |              |
| Less Payments from Allied Corporations .....      |          |              |              |                |                |             |              |
|   |          |              |              |                | 525,002.21     |             |              |
|   |          |              |              |                | 688,760.39     |             |              |
|   |          |              |              |                | 580,389.41     |             |              |
|   |          |              |              |                | \$108,370.98   |             |              |

## NOTES

## Payments by Allied Corporations

- (1) Salaries Account Barnard College. Credited to the following Departments:

|   |              |              |
|---|--------------|--------------|
| General University Administration.....  | \$ 18,450.00 |              |
| Anthropology.....                       | 1,000.00     |              |
| Botany.....                             | 11,900.00    |              |
| Chemistry at Barnard.....               | 10,050.00    |              |
| Economics.....                          | 10,650.00    |              |
| English and Comparative Literature..... | 27,300.00    |              |
| Geology.....                            | 6,350.00     |              |
| Germanic Languages.....                 | 6,850.00     |              |
| Greek and Latin.....                    | 14,550.00    |              |
| History.....                            | 9,850.00     |              |
| Mathematics.....                        | 13,350.00    |              |
| Philosophy and Psychology.....          | 12,100.00    |              |
| Physical Education.....                 | 11,600.00    |              |
| Physics.....                            | 6,550.00     |              |
| Public Law and Jurisprudence.....       | 1,300.00     |              |
| Religion.....                           | 2,500.00     |              |
| Romance Languages.....                  | 14,900.00    |              |
| Zoology.....                            | 12,050.00    |              |
| Library.....                            | 1,800.00     |              |
| Business Administration.....            | 4,750.00     | \$197,850.00 |

- (2) Salaries Account Teachers College. Credited to the following Departments:

|                           |            |            |
|---------------------------|------------|------------|
| Food Chemistry.....       | 1,133.36   |            |
| Biological Chemistry..... | 680.00     |            |
| Teachers College.....     | 294,833.32 | 296,646.68 |

- (3) Harkness Fund. Credited to the following Departments:

|                           |           |           |
|---------------------------|-----------|-----------|
| Pathology.....            | 4,800.02  |           |
| Practice of Medicine..... | 13,150.00 |           |
| Surgery.....              | 8,300.00  | 26,250.02 |

- (4) Carnegie Endowment. Credited to the following:

|                          |           |           |
|--------------------------|-----------|-----------|
| Retiring Allowances..... | 45,433.09 |           |
| Widows' Allowances.....  | 12,664.17 | 58,097.26 |

- (5) Vanderbilt Clinic:

|                                     |          |                     |
|-------------------------------------|----------|---------------------|
| Medical School, Administration..... | 1,545.45 |                     |
|                                     |          | <u>\$580,389.41</u> |

**DEDUCTIONS**

|  |                     |
|--|---------------------|
| (6) Adjustment of gift, and depreciation .....                           | \$501,347.25        |
| (7) Transferred to University Land, Buildings & Equipment                | 3,587.49            |
| (8) Transferred to University Land, Buildings & Equipment                | 876.26              |
| (9) Transferred to Principal Columbia House Endowment<br>Fund .....      | 333.11              |
| (10) Transferred to University Land, Buildings & Equipment               | 7,500.00            |
| (11) Transferred to Income A. P. Burgess Fund .....                      | 316.82              |
| (12) Transferred to Metallurgical Research Laboratory<br>Equipment ..... | 1,102.99            |
| (13) Transferred to Quantitative Laboratory Equipment...                 | 2,306.25            |
| (14) Transferred to Bakelite Fellowship .....                            | 1,000.00            |
| (15) Transferred to Metallurgical Research Laboratory<br>Equipment ..... | 1,610.00            |
| (16) Transferred to Metallurgical Research Laboratory<br>Equipment ..... | 409.67              |
| (17) Transferred to Metallurgical Research Laboratory<br>Equipment ..... | 823.58              |
| (18) Transferred to Income of the Corporation .....                      | 2.00                |
| (19) Transferred to Income of the Corporation .....                      | 21.25               |
| (20) Depreciation of Securities .....                                    | 30.00               |
| (21) Charged to Reserve Account .....                                    | 681.22              |
| (22) Transferred to Business Library Gift .....                          | 1,500.00            |
| (23) Transferred to Van Amringe Memorial .....                           | 1,554.32            |
|  | <hr/>               |
|  | <b>\$525,002.21</b> |
|  | <hr/>               |

## SECURITIES OWNED FOR ACCOUNT OF SPECIAL, GENERAL AND DESIGNATED FUNDS

|  | At June 30, 1919 | Increase<br>1919-1920 | Decrease<br>1919-1920 | At June 30, 1920 |
|--|------------------|-----------------------|-----------------------|------------------|
| <b>1—Special Funds, etc.</b>   |                  |                       |                       |                  |
| <b>BONDS</b>   |                  |                       |                       |                  |
| \$3,000 Adams Express Co.'s Collateral Trust 50 year<br>Gold Bonds, due 1948.....  | .....            | \$1,680.00            | .....                 | \$1,680.00       |
| 1,000 American Dock & Improvement Co.'s 1st.<br>Mtg. 5% Bond Due 1921.....   | .....            | 952.50                | .....                 | 952.50           |
| 4,000 American Smelting & Refining Company's 1st<br>Mtg. 5% Bonds, Series A, due 1947.....   | \$3,480.00       | .....                 | .....                 | 3,480.00         |
| 50,000 American Telephone and Telegraph Co.'s 4 per<br>cent. Bonds, due 1929.....  | 46,125.00        | .....                 | .....                 | 46,125.00        |
| 16,000 American Telephone & Telegraph Co.'s 4 per<br>cent Bonds, due 1929.....   | 13,840.00        | .....                 | .....                 | 13,840.00        |
| 100,000 Anglo-French 5 Year External Loan Bonds,<br>due 1920.....  | 100,000.00       | .....                 | .....                 | 100,000.00       |
| 10,000 Atchison, Topeka & Santa Fé Ry. Co.'s 4 per<br>cent. 100 Year Adjustment Bonds, due 1995.....   | 10,000.00        | .....                 | .....                 | 10,000.00        |
| 9,000 Atchison, Topeka & Santa Fé Ry. Co.'s 4 per<br>cent. General Mortgage 100 Year Bonds, due 1995   | 9,000.00         | .....                 | .....                 | 9,000.00         |
| 3,000 Atchison, Topeka & Santa Fé Ry. Co.'s 4 per<br>cent General Mortgage 100 year Bonds, due 1995  | 2,632.50         | .....                 | .....                 | 2,632.50         |
| 100,000 Atchison, Topeka & Santa Fé Ry. Co.'s Cali-<br>fornia Arizona Lines, 4½ per cent. First and Re-<br>funding 50 Year Gold Bonds, due 1962..... | 98,500.00        | .....                 | .....                 | 98,500.00        |
| 10,000 Atlantic Coast Line R.R. Co's 4 per cent. First<br>Consolidated 50 Year Mortgage Bonds, due 1952.   | 10,000.00        | .....                 | .....                 | 10,000.00        |
| 20,000 Atlantic Coast Line R. R. Co.'s 4 per cent.<br>First consolidated 50 year Mortgage Bonds, due<br>1952.....                                    | 17,475.00        | .....                 | .....                 | 17,475.00        |

|  |            |          |       |  |            |
|--|------------|----------|-------|--|------------|
| 10,000 Augusta-Alken Ry. & Electric Corp.'s 5% Sinking Fund Bonds, due 1935  | 6,000.00   |          |       |  | 6,000.00   |
| 20,000 Baltimore & Ohio R. R. Co's 3½ per cent. Prior Lien Bonds due 1925  | 18,600.00  |          |       |  | 18,600.00  |
| 3,000 Baltimore & Ohio R. R. Co.'s 3½ per cent. Prior Lien Bonds, due 1925   | 2,707.50   |          |       |  | 2,707.50   |
| 2,000 Baltimore & Ohio Railroad Co.'s 4% 1st. Mtge. 50 years Bonds, due 1948   |            | 2,000.00 |       |  | 2,000.00   |
| 4,000 Belleville & Carondelet R. R. Co's 6 per cent. First Mortgage Bonds, due 1923  | 3,571.80   |          |       |  | 3,571.80   |
| 1,000 The Broadway & Seventh Ave. R. R. Co.'s 1st. Consolidated Mtge. 5% Gold Bonds, due 1943                                |            | 400.00   |       |  | 400.00     |
| 200,000 Brooklyn Rapid Transit Co's 4 per cent. First Refunding Mortgage Bonds, due 2002                                     | 200,000.00 |          |       |  | 200,000.00 |
| 18,000 Buffalo, Rochester & Pittsburgh R. R. Co's 5 per cent. General Mortgage Bonds, due 1937                               | 17,940.32  |          |       |  | 17,940.32  |
| 20,000 Bush Terminal Co's 4 per cent. First Mortgage 50 year Bonds, due 1952   | 20,000.00  |          |       |  | 20,000.00  |
| 10,000 Bush Terminal Buildings Co.'s 1st Mtg. Sinking Fund 5% Bonds due 1960   | 7,525.00   |          |       |  | 7,525.00   |
| 77,000 Central Pacific Ry. Co.'s 4 per cent. First Refunding Mortgage Bonds, due 1949  | 69,495.00  |          |       |  | 69,495.00  |
| 26,000 Central R. R. Co. of New Jersey 5 per cent. Consolidated Mortgage Bonds, due 1987                                     | 27,338.84  |          | 20.29 |  | 27,338.55  |
| 1,000 Central R. R. Co. of New Jersey 5 per cent. 100 Year General Mortgage Bond, due 1987                                   | 1,000.00   |          |       |  | 1,000.00   |
| 1,000 Central Railroad Co. of New Jersey 5% Consolidated Mtge. Bond due 1987   |            | 945.00   |       |  | 945.00     |
| 10,000 Chesapeake & Ohio R. R. Co.'s 4 per cent. First Consolidated Mortgage Bonds, due 1989 (Richmond & Allegheny Division) | 10,000.00  |          |       |  | 10,000.00  |

|  | At June 30, 1919 | Increase<br>1919-1920 | Decrease<br>1919-1920 | At June 30, 1920 |
|--|------------------|-----------------------|-----------------------|------------------|
| \$50,000 Chesapeake & Ohio R. R. Co's 4½ per cent. General Mortgage Bonds, due 1992.....   | \$53,777.62      | .....                 | \$52.47               | \$53,725.15      |
| 1,000 Chesapeake & Ohio R. R. Co's 5 per cent. First Mortgage Bond, due 1940 (Craig Valley Branch).....                                | 1,000.00         | .....                 | .....                 | 1,000.00         |
| 2,000 Chicago, Milwaukee & St. Paul Ry. Co.'s Gen'l Mtge. 4 per cent Gold Bonds Series A due 1989.....                                 | .....            | 1,200.00              | .....                 | 1,200.00         |
| 33,000 Chicago, Milwaukee & Puget Sound Ry. Co's 4 per cent. First Mortgage Bonds, due 1949.....                                       | 31,931.17        | .....                 | .....                 | 31,931.17        |
| 1,000 Chicago, Milwaukee & St. Paul Ry. Co's General Mortgage 5 per cent. Convertible Gold Bond, due 2014.....                         | 967.50           | .....                 | .....                 | 967.50           |
| 10,000 Chicago & Northwestern R. R. Co's 4 per cent. Extension Bonds, due 1926.....  | 10,000.00        | .....                 | .....                 | 10,000.00        |
| 1,000 Chicago & Northwestern Ry. Co's General Mortgage 5 per cent. Gold Bond, due 1987.....  | 1,048.75         | .....                 | .....                 | 1,048.75         |
| 2,000 Chicago & Northwestern Ry. Co's 4 per cent. Extension Bond due 1926.....   | .....            | 1,683.00              | .....                 | 1,683.00         |
| 250,000 Chicago & Northwestern Ry. Co's 5 per cent. Sinking Fund Debenture Bonds, due 1933.....  | 250,000.00       | .....                 | .....                 | 250,000.00       |
| 17,000 Chicago, Rock Island & Pacific Ry. Co's 4 per cent. General Mortgage Bonds, due 1988.....                                       | 17,000.00        | .....                 | .....                 | 17,000.00        |
| 50,000 Cincinnati, Indianapolis, St. Louis and Chicago Railway Co's 4 per cent. Fifty Year General First Mortgage Bonds, due 1936..... | 48,000.00        | .....                 | .....                 | 48,000.00        |
| 1,000 Cincinnati, Indianapolis & Western R. R. Co's First Mortgage 5 per cent. 50 year Gold Bond, due 1965.....                        | 800.00           | .....                 | .....                 | 800.00           |
| 55,000 City of New York 4½ per cent. Bonds, due 1960.....  | 54,430.00        | .....                 | .....                 | 54,430.00        |
| 7,000 City of New York 4½ per cent. Bonds, due 1962.....   | 6,930.00         | .....                 | .....                 | 6,930.00         |

|  |           |       |          |       |        |           |
|--|-----------|-------|----------|-------|--------|-----------|
| 25,000 Cleveland Electric Illuminating Co's First Mortgage 5 per cent. Bonds, due 1939.....  | 25,206.40 | ..... | .....    | ..... | 10.90  | 25,195.50 |
| 2,000 Cleveland, Columbus, Cincinnati & Indianapolis Ry. Co.'s Gen'l Mtge. Consolidated 6 per cent. Gold Bonds, due 1934.....      | .....     | ..... | 1,900.00 | ..... | .....  | 1,900.00  |
| 50,000 Cleveland and Mahoning Valley Ry. Co's 50 Year 5 per cent. Gold Bonds, due 1938.....  | 50,000.00 | ..... | .....    | ..... | .....  | 50,000.00 |
| 2,000 Columbus & Ninth Ave. Railroad Co.'s 1st Mtge. 5 per cent. Gold Bonds, due 1993.....   | .....     | ..... | 600.00   | ..... | .....  | 600.00    |
| 6,000 Columbus & Toledo R.R. Co.'s First Mortgage Sinking Fund 4 per cent. Bonds, due 1955.....                                    | 4,515.00  | ..... | .....    | ..... | .....  | 4,515.00  |
| 2,000 Compania Metalurgica Mexicana 1st Mtg. Sinking Fund 5 per cent. Bond, due 1931.....  | .....     | ..... | .....    | ..... | .....  | .....     |
| 4,000 Consolidation Coal Co's 10-Year 6 per cent. Convertible Secured Bonds, due 1923.....   | 4,000.00  | ..... | .....    | ..... | .....  | 4,000.00  |
| 30,000 Denver & Rio Grande R. R. Co's 4 per cent. First Consolidated Mortgage Bonds, due 1936...                                   | 30,000.00 | ..... | .....    | ..... | .....  | 30,000.00 |
| 15,000 Des Moines & Fort Dodge R. R. Co's 4 per cent. 30 Year First Mortgage Bonds, due 1935                                       | 15,000.00 | ..... | .....    | ..... | .....  | 15,000.00 |
| 25,000 Des Plaines Valley Ry. Co's 4½ per cent. First Mortgage Bonds, due 1947 (Guaranteed by Chicago & Northwestern Ry. Co.)..... | 25,000.00 | ..... | .....    | ..... | .....  | 25,000.00 |
| 85,000 Duluth & Iron Range R. R. Co's 5 per cent. First Mortgage Bonds, due 1937.....  | 85,212.50 | ..... | .....    | ..... | 12.50  | 85,200.00 |
| 6,000 Georgia Pacific R. R. Co's 6 per cent. First Mortgage Bonds, due 1922.....   | 6,295.00  | ..... | .....    | ..... | 147.50 | 6,147.50  |
| 1,000 Houston & Texas Central R. R. Co's Gen'l Mortgage 4 per cent. Gold Bonds, due 1921.....                                      | .....     | ..... | 940.00   | ..... | .....  | 940.00    |
| 24,000 Illinois Central R. R. Co's 4 per cent. Bonds, due 1953.....  | 21,950.67 | ..... | .....    | ..... | .....  | 21,950.67 |
| 25,000 Kansas City, Fort Scott & Memphis R. R. Co's 6 per cent. Consolidated Mortgage Bonds, due 1928.....                         | 26,958.30 | ..... | .....    | ..... | 244.80 | 26,713.50 |



|   | At June 30, 1919 | Increase<br>1919-1920 | Decrease<br>1919-1920 | At June 30, 1920 |
|---|------------------|-----------------------|-----------------------|------------------|
| \$10,000 Kings County Elevated R. R. Co.'s 4 per cent. First Mortgage Bonds, due 1949.....                | \$10,000.00      | .....                 | .....                 | \$10,000.00      |
| 9,000 Lehigh Valley R. R. Co.'s Gen'l Consolidated Mortgage Gold Bonds, 4 per cent., due 2003.....        | .....            | 2,352.00              | .....                 | 2,352.00         |
| 28,000 Lehigh Valley R. R. Co.'s 4½ per cent. First Mortgage Bonds, due 1940.....                         | 28,000.00        | .....                 | .....                 | 28,000.00        |
| 10,000 Lehigh Valley Terminal R.R. Co.'s 5 per cent. First Mortgage Bonds, due 1941.....                  | 10,000.00        | .....                 | .....                 | 10,000.00        |
| 1,000 The Lexington Ave. and Pavonia Ferry R. R. Co.'s 1st. Mortgage 5 per cent. Gold Bond, due 1993..... | .....            | 300.00                | .....                 | 300.00           |
| 25,000 Louisville & Nashville R. R. Co.'s 7 per cent. Certificates, due 1930.....                         | .....            | 24,968.75             | .....                 | 24,968.75        |
| 1,000 Manati Sugar Co's 1st Mtg. 6 per cent Conv. Bonds, due 1931.....                                    | 1,020.00         | .....                 | 1,020.00              | .....            |
| 29,000 Manhattan Ry. Co.'s 4 per cent. Consolidated Bonds, due 1990.....                                  | 27,948.75        | .....                 | .....                 | 27,948.75        |
| 225,000 Michigan Central R. R. Co.'s (Detroit & Bay City) 5 per cent. First Mortgage Bonds, due 1931..... | 225,000.00       | .....                 | .....                 | 225,000.00       |
| 16,000 Milwaukee Gas Light Co.'s 4 per cent. Gold Bonds, due 1927.....                                    | 14,240.00        | .....                 | .....                 | 14,240.00        |
| 1,000 Milwaukee, Lake Shore & Western Railway Co.'s 6 per cent. consolidated Mortgage Bond, due 1921..... | .....            | 982.50                | .....                 | 982.50           |
| 1,000 Minneapolis & St. Louis Railroad Co.'s 4 per cent. 1st. Refunding Mortgage Gold Bond, due 1949..... | .....            | 370.00                | .....                 | 370.00           |
| 1,000 Minneapolis & St. Louis R. R. Co.'s First Refunding 4 per cent Gold Bonds, due 1949.....            | 480.00           | .....                 | .....                 | 480.00           |
| 3,000 Missouri Pacific R.R. Co.'s Inc. First & Refunding 5 per cent Gold Bonds, Series "A" due 1965.....  | 2,685.00         | .....                 | .....                 | 2,685.00         |

|   |            |       |           |       |            |
|---|------------|-------|-----------|-------|------------|
| 100,000 Nashville, Chattanooga & St. Louis Ry. Co.'s<br>Con. 5 per cent. Mortgage Gold Bonds, due 1928...         | 100,000.00 | ..... | .....     | ..... | 100,000.00 |
| 25,000 New Jersey Junction R. R. Co's 4 per cent.<br>First Mortgage Bonds, due 1936.....                          | 25,000.00  | ..... | .....     | ..... | 25,000.00  |
| 3,000 New York Central R.R. Company's 6 per cent<br>Conv. Deb. Bonds, due 1935.....                               | 2,805.00   | ..... | .....     | ..... | 2,805.00   |
| 25,000 N. Y. Central Railroad Co.'s Equipment<br>Trust 7 per cent. Gold Certificates, due 1933....                | .....      | ..... | 24,875.00 | ..... | 24,875.00  |
| 3,000 New York, Chicago & St. Louis Railroad Co.'s<br>1st. Mortgage 4 per cent. Gold Bond, due 1937 ..            | .....      | ..... | 2,265.00  | ..... | 2,265.00   |
| 58,000 New York Gas and Electric Light, Heat and<br>Power Co's Purchase Money 4 per cent. Bonds,<br>due 1949..... | 51,402.50  | ..... | .....     | ..... | 51,402.50  |
| 50,000 New York, New Haven & Hartford R. R.<br>Co's 6 per cent Convertible Debenture Bonds,<br>due 1948.....      | 50,000.00  | ..... | .....     | ..... | 50,000.00  |
| 1,000 The New York Lackawanna & Western Ry.<br>Co.'s Construction Mortgage 5 per cent. Bond,<br>due 1923.....     | .....      | ..... | 955.00    | ..... | 955.00     |
| 10,000 New York, Ontario & Western Ry. Co's 4 per<br>cent. Refunding Mortgage Bonds, due 1992.....                | 10,000.00  | ..... | .....     | ..... | 10,000.00  |
| 2,000 New York Ry. Co's Adjustment Mortgage 5<br>per cent Income Gold Bonds, due 1942.....                        | 480.00     | ..... | .....     | ..... | 480.00     |
| 1,000 New York, Susquehanna & Western Railroad<br>Co.'s 1st. Mtge. Gold Refunding Bond, due 1937 ..               | .....      | ..... | .....     | ..... | .....      |
| 50,000 New York Telephone Co's 4½ per cent. First<br>and General Mortgage S. F. Bonds, due 1939 ..                | 48,500.00  | ..... | 500.00    | ..... | 500.00     |
| 25,000 Niagara Falls Power Co's 5 per cent First<br>Mortgage Bonds, due 1932.....                                 | 22,500.00  | ..... | .....     | ..... | 22,500.00  |
| 13,000 Norfolk & Western Ry. Co's 4 per cent. First<br>Consolidated Mortgage Bonds, due 1996.....                 | 12,632.50  | ..... | .....     | ..... | 12,632.50  |
| 317,000 Northern Pacific-Great Northern 4 per cent.<br>Joint Bonds, due 1921 (C. B. & Q. collaterals)...          | 303,155.00 | ..... | .....     | ..... | 303,155.00 |

|   | At June 30, 1919 | Increase<br>1919-1920 | Decrease<br>1919-1920 | At June 30, 1920 |
|---|------------------|-----------------------|-----------------------|------------------|
| \$370,000 Northern Pacific Ry. Co.'s (General Lien Railway & Land Grant) 3 per cent. Bonds, due 2047..                  | \$262,915.00     |                       |                       | \$262,915.00     |
| 135,000 Northern Pacific Ry. Co.'s (Prior Lien Railway & Land Grant) 4 per cent. Bonds, due 1997.....                   | 134,412.96       |                       | \$9.26                | 134,403.70       |
| 2,000 Northern Pacific Ry. Co.'s Ry. & Land Grant 4 per cent. Gold Bonds, due 1997.....                                 |                  | \$1,395.00            |                       | 1,395.00         |
| 25,000 Northern Pacific Ry. Co.'s 7 per cent. Equipment Trust Gold Certificates, due 1929 .....                         |                  | 25,000.00             |                       | 25,000.00        |
| 50,000 Oregon Short Line R.R. Co.'s 5 per cent. Consolidated First Mortgage Bonds, due 1946. ....                       | 55,297.50        |                       | 203.75                | 55,093.75        |
| 10,000 Pacific Fruit Express Equipment Trust Certificates 7 per cent., due 1924 .....                                   |                  | 10,000.00             |                       | 10,000.00        |
| 10,000 Pacific Fruit Express Equipment Trust Certificates 7 per cent., due 1929 .....                                   |                  | 10,000.00             |                       | 10,000.00        |
| 4,000 Park & Tilford Debenture 6 per cent Gold Bonds due 1936.....  | 3,160.00         |                       |                       | 3,160.00         |
| 5,000 Pennsylvania R. R. Co.'s General Mortgage 4½ per cent. Bonds, Series A, due 1965 .....                            | 4,456.25         |                       |                       | 4,456.25         |
| 1,000 Pennsylvania Co.'s 4½ per cent. Bond, due 1921 .....  |                  | 960.00                |                       | 960.00           |
| 35,000 Pennsylvania R. R. Co.'s General Mortgage 5 per cent. Gold Bonds, due 1968 .....                                 |                  | 29,006.25             |                       | 29,006.25        |
| 8,000 Peoria & Eastern Ry. Co.'s Mortgage non-cumulative 4 per cent Income Bonds, due 1990...                           | 1,440.00         |                       |                       | 1,440.00         |
| 10,000 Reading Company & Philadelphia & Reading Coal & Iron Co. General Mortgage 4 per cent Gold Bonds, due 1997.....   | 9,050.00         |                       |                       | 9,050.00         |
| 2,000 Reading Co.'s and the Philadelphia & Reading Coal & Iron Co.'s Gen'l Mtge. 4 per cent. Gold Bonds, due 1997 ..... |                  | 1,505.00              |                       | 1,505.00         |

|   |           |       |           |       |           |
|---|-----------|-------|-----------|-------|-----------|
| 5,000 Rhode Island Suburban Ry. Co's 4 per cent. First Mortgage Bonds, due 1950.....                                | 5,000.00  | ..... | .....     | ..... | 5,000.00  |
| 2,000 Rome, Watertown & Ogdensburg R. R. Co.'s 1st. Consolidated convertible Mtge. Bonds, due 1922.....             |           | ..... | 1,900.00  | ..... | 1,900.00  |
| 15,000 St. Louis, Iron Mountain & Southern Ry. Co's 4 per cent. Unifying & Refunding Bonds, due 1929.....           | 15,000.00 | ..... | .....     | ..... | 15,000.00 |
| 13,000 St. Louis, Iron Mountain & Southern Ry. Co.'s (River and Gulf Division) 4 per cent Gold Bonds, due 1933..... | 9,815.00  | ..... | .....     | ..... | 9,815.00  |
| 50,000 St. Louis, Peoria & North Western Ry. Co's 5 per cent. First Mortgage Bonds, due 1948.....                   | 51,750.00 | ..... | .....     | 62.50 | 51,687.50 |
| 5,000 St. Louis & San Francisco R. R. Co's Gen. Mtg. 5 per cent. Bonds due 1931.....                                | 4,600.00  | ..... | .....     | ..... | 4,600.00  |
| 3,000 St. Louis Transit Co.'s Improvement 5 per cent. 20 year Gold Bonds, due 1924.....                             | 1,575.00  | ..... | .....     | ..... | 1,575.00  |
| 28,000 St. Paul, Minneapolis & Manitoba R. R. Co's 4½ per cent. Consolidated Mortgage Bonds, due 1933.....          | 28,000.00 | ..... | .....     | ..... | 28,000.00 |
| 1,000 St. Paul, Minneapolis & Manitoba Ry. Co.'s Consolidated Mortgage 6 per cent. Gold Bond, due 1933.....         |           | ..... | 857.50    | ..... | 857.50    |
| 33,000 San Antonio & Aransas Pass Ry. Co.'s First Mortgage 4 per cent. Gold Bonds, due 1943.....                    | 20,501.25 | ..... | .....     | ..... | 20,501.25 |
| 70,000 Sedoto Valley & New England R. R. Co's 4 per cent. Bonds, due 1989.....                                      | 70,000.00 | ..... | .....     | ..... | 70,000.00 |
| 6,000 Southern Railway Co's 5 per cent. First Mortgage Bonds, due 1996 (Memphis Division).....                      | 6,000.00  | ..... | .....     | ..... | 6,000.00  |
| 1,000 Southern Railway Co's 1st. Consolidated Mortgage 5 per cent. Bond, due 1994.....                              |           | ..... | 786.25    | ..... | 786.25    |
| 15,000 Southern Pacific Equipment Trust 7 per cent. Temporary Certificates, due 1934.....                           |           | ..... | 15,093.75 | ..... | 15,093.75 |
| 6,000 Southern Pacific Equipment Trust 7 per cent. Temporary Certificates, due 1929.....                            |           | ..... | 6,000.00  | ..... | 6,000.00  |

|   | At June 30, 1919 | Increase<br>1919-1920 | Decrease<br>1919-1920 | At June 30, 1920 |
|---|------------------|-----------------------|-----------------------|------------------|
| 15,000 State of New York (Loan for Canal Improvements; Erie, Oswego & Champlain) 4 per cent. Bonds, due 1961..... | \$15,000.00      |                       |                       | \$15,000.00      |
| 12,000 Texas & Pacific Ry. Co's 5 per cent. First Mortgage Bonds, due 2000.....                                   | 12,000.00        |                       |                       | 12,000.00        |
| 25,000 Toledo, Peoria & Western Ry. Co's 4 per cent. First Mortgage Bonds, due 1917.....                          | 25,000.00        |                       |                       | 25,000.00        |
| 50,000 Union Pacific R. R. Co's 4 per cent. 20 Year Convertible Bonds, due 1927.....                              | 50,000.00        |                       |                       | 50,000.00        |
| 6,000 Union Pacific R. R. Co's 4 per cent. (Railway and Land Grant) First Mortgage Bonds, due 1947                | 6,052.28         |                       | \$1.93                | 6,050.35         |
| 1,000 Union Pacific R. R. Co's 1st. Mortgage R. R. & Land Grant 4 per cent. Gold Bond, due 1947.                  |                  | \$800.00              |                       | 800.00           |
| 14,000 Union Pacific R. R. Co.'s (Railway and Land Grant) 4 per cent. First Mortgage Bonds, due 1947              | 12,792.50        |                       |                       | 12,792.50        |
| 76,000 United Kingdom of Great Britain & Ireland 3 Year 5½ per cent. Notes, due 1919.....                         | 74,351.25        |                       | 74,351.25             |                  |
| 75,000 United Kingdom of Great Britain & Ireland 5 Year 5½ per cent. Notes, due 1921.....                         | 73,031.25        |                       |                       | 73,031.25        |
| 13,000 United States of America First Liberty Loan 3½ per cent. Bonds, due 1947.....                              | 13,000.00        |                       |                       | 13,000.00        |
| 6,800 United States of America Second Liberty Loan 4 per cent Convertible Gold Bonds, Due 1942                    | 6,800.00         |                       | 6,800.00              |                  |
| 7,300 United States of America Second Liberty Loan 4½ per cent. Converted Bonds, due 1942...                      |                  | 7,300.00              |                       | 7,300.00         |
| 5,000 United States of America Second Liberty Loan 4½ per cent Converted Gold Bonds, due 1942....                 | 5,000.00         |                       |                       | 5,000.00         |
| 335,000 United States of America Third Liberty Loan 4½ per cent Bonds, due 1928 .....                             | 320,294.40       |                       | 7,000.00              | 313,294.40       |

|  |            |              |  |            |              |
|--|------------|--------------|--|------------|--------------|
| 100,000 United States of America Fourth Liberty Loan 4¼ per cent Bonds, due 1938 .....           | 100,000.00 |              |  |            | 100,000.00   |
| 506,000 United States of America Fourth Liberty Loan 4¼ per cent. Bonds, due 1938 .....          |            | 434,500.00   |  |            | 434,500.00   |
| 1,000 United States Steel Corporation's 5 per cent. 10-60 Year Sinking Fund Bond, due 1963 ..... | 1,000.00   |              |  |            | 1,000.00     |
| 26,000 Wabash R. R. Co.'s First Mortgage 5 per cent 50 year Bonds, due 1939 .....                | 25,678.75  |              |  | 16,036.25  | 9,642.50     |
| 30,000 Wabash R. R. Co's 3½ per cent. First Mortgage Bonds, due 1941 (Omaha Division) .....      | 30,000.00  |              |  |            | 30,000.00    |
| 16,000 Wabash R. R. Co.'s Second Mortgage 5 per cent Bonds, due 1939 .....                       | 14,880.00  |              |  |            | 14,880.00    |
| 8,000 Western Maryland R.R. Co.'s First Mortgage 4 per cent Gold Bonds, due 1952 .....           | 5,460.00   |              |  |            | 5,460.00     |
| 52,000 West Shore R. R. Co's 4 per cent. First Mortgage Bonds due 2361 .....                     | 52,245.50  |              |  |            | 52,245.50    |
| 24,000 West Shore Railroad Co.'s 1st. Mortgage 4 per cent. Bonds, due 2361 .....                 |            | 16,106.19    |  |            | 16,106.19    |
| 15,000 Wilkes-Barre & Eastern R. R. Co's 5 per cent. First Mortgage Bonds, due 1942 .....        | 15,000.00  |              |  |            | 15,000.00    |
| 50,000 Wisconsin Central R.R. Co's 4 per cent. First Mortgage Bonds, due 1949 .....              | 45,750.00  |              |  |            | 45,750.00    |
|  |            | 3,997,451.51 |  |            | 4,522,558.80 |
| STOCKS   |            |              |  |            |              |
| 16 shares Albany & Susquehanna R. R. Co. ....  | 2,000.00   |              |  |            | 2,000.00     |
| 1,789½ shares American Light & Traction Co. Common Stock .....                                   | 635,522.00 |              |  | 635,522.00 |              |
| 710½ shares American Light & Traction Co. Common stock .....                                     | 142,165.00 |              |  | 142,165.00 |              |
| 590 shares American Smelters Securities Co. Series B. preferred .....                            | 49,666.67  |              |  |            | 49,666.67    |
| 166 shares American Sugar Refining Co. preferred ..  | 19,422.00  |              |  |            | 19,422.00    |

|   | At June 30, 1919 | Increase<br>1919-1920 | Decrease<br>1919-1920 | At June 30, 1920 |
|---|------------------|-----------------------|-----------------------|------------------|
| 300 shares Atlanta & Charlotte Air Line R. R. Co.   | \$51,337.50      |                       |                       | \$51,337.50      |
| 500 Baltimore & Ohio R. R. Co. Capital Stock  | 46,000.00        |                       |                       | 46,000.00        |
| 10 shares Baltimore & Ohio R. R. Co.  | 690.00           |                       |                       | 690.00           |
| 1 share Baltimore & Ohio R. R. Co. preferred  | 68.75            |                       |                       | 68.75            |
| 200 shares Bankers Trust Co. in the City of New York  |                  |                       |                       |                  |
| 66 shares Bankers Trust Co. in the City of New York   | 61,000.00        |                       |                       | 61,000.00        |
| 8 shares Bank of New York   |                  |                       |                       |                  |
| 32 shares Boston and Albany Railroad Co.  |                  | \$25,608.00           |                       | 25,608.00        |
| 1,333 shares Canada Southern Railway Co.  |                  | 3,680.00              |                       | 3,680.00         |
| 19 shares Catawissa R. R. Co., preferred (\$50 par value)   | 67,983.00        | 3,840.00              |                       | 3,840.00         |
| 1,000 shares Central R. R. Co. of New Jersey  | 475.00           |                       |                       | 475.00           |
| 700 shares Chase National Bank in the City of New York and Chase Securities Corp. in the City of New York       | 295,000.00       |                       |                       | 295,000.00       |
| 350 shares Chase National Bank in the City of New York and Chase Securities Corporation in the City of New York | 280,000.00       |                       |                       | 280,000.00       |
| 366 shares Chicago-Great Western R. R. Co. preferred  |                  | 168,000.00            |                       | 168,000.00       |
| 166 shares Chicago, St. Paul, Minneapolis & Omaha Ry. Co.   | 11,620.50        |                       |                       | 11,620.50        |
| 11 shares Cincinnati, Hamilton & Dayton R. R. Co. common  | 16,268.00        |                       |                       | 16,268.00        |
| 20 shares Cincinnati, Indianapolis & Western R. R. Co.  |                  |                       |                       |                  |
| 20 shares Cincinnati, Indianapolis & Western R. R. Co. preferred  | 100.00           |                       |                       | 100.00           |
|   | 300.00           |                       |                       | 300.00           |

|  |            |          |          |       |            |
|--|------------|----------|----------|-------|------------|
| 2,000 City of New York 3½ per cent. Corporate Stock (for replenishing the Fund for Street and Park Opening) due 1929 ..... | 2,043.00   | .....    | .....    | ..... | 2,043.00   |
| 17,000 City of New York 4½ per cent. Corporate Stock, due 1937 .....   | 17,000.00  | .....    | .....    | ..... | 17,000.00  |
| 311,000 City of New York 4 per cent. Corporate Stock due 1936 .....  | 303,747.50 | .....    | .....    | ..... | 303,747.50 |
| 1,000 City of New York 4½ per cent. Corporate Stock, due 1962 .....  |            | 1,000.00 | .....    | ..... | 1,000.00   |
| 100 shares Columbia Trust Co. in the City of New York .....  | 39,000.00  | .....    | .....    | ..... | 39,000.00  |
| 5 shares Consolidated Gas Co. of New York ..   | 193.53     | .....    | .....    | ..... | 193.53     |
| 100 shares Cuba Cane Sugar Corp. Pref. Stock ..  | 8,000.00   | .....    | .....    | ..... | 8,000.00   |
| 122 shares Delaware & Hudson Co. ....  | 12,639.34  | .....    | .....    | ..... | 12,639.34  |
| 10 shares Delaware and Hudson Co. ....   |            | 921.25   | .....    | ..... | 921.25     |
| 26 shares Delaware, Lackawanna & Western Coal Co. (\$50 par value) .....   | 1,300.00   | .....    | .....    | ..... | 1,300.00   |
| 1,167 shares Delaware, Lackawanna & Western R. R. Co. (\$50 par value) .....   | 228,242.50 | .....    | .....    | ..... | 228,242.50 |
| 290 shares B. F. Goodrich Co. 7 per cent. preferred .....  | 7,377.20   | .....    | .....    | ..... | 7,377.20   |
| 262 shares Illinois Central R. R. Co. ....   | 30,367.40  | .....    | .....    | ..... | 30,367.40  |
| 280 shares Jewel Tea Co. 7 per cent. preferred ..  | 7,122.80   | .....    | .....    | ..... | 7,122.80   |
| 21 shares Lackawanna R. R. Co. of New Jersey ..  | 2,117.50   | .....    | .....    | ..... | 2,117.50   |
| 374 shares Lehigh & New York R.R. Co. preferred ..   | 2,618.00   | .....    | 2,618.00 | ..... | .....      |
| 500 shares Louisville & Nashville R. R. Co. ....   | 64,750.00  | .....    | .....    | ..... | 64,750.00  |
| 10½ shares Manati Sugar Co. ....   |            | 1,020.00 | .....    | ..... | 1,020.00   |
| 1,000 shares Manhattan Ry. Co. ....  | 129,312.50 | .....    | .....    | ..... | 129,312.50 |
| 83 shares Minneapolis and St. Louis R. R. Co. ..   | 1,265.75   | .....    | .....    | ..... | 1,265.75   |
| 33 shares Missouri, Kansas and Texas Ry. Co. ..  | 198.00     | .....    | .....    | ..... | 198.00     |
| 40 shares Morris and Essex Railroad Co. ....   |            | 2,680.00 | .....    | ..... | 2,680.00   |
| 13 shares National Bank of Commerce in New York .....  | 1,142.50   | .....    | .....    | ..... | 1,142.50   |



|  | At June 30, 1919 | Increase<br>1919-1920 | Decrease<br>1919-1920 | At June 30, 1920 |
|--|------------------|-----------------------|-----------------------|------------------|
| 10 shares National Bank of Commerce in New York.....                           |                  |                       |                       | \$2,100.00       |
| 9 shares National Sugar Refining Co.....                                       | \$909.00         |                       |                       | 909.00           |
| New England Investment & Security Co. Certificate of Interest.....             | 166.67           |                       |                       | 166.67           |
| 72 shares New York, New Haven and Hartford R. R. Co.....                       |                  |                       |                       |                  |
| 5,000 shares Pennsylvania R. R. Co. (\$50 per value)                           | 11,002.50        |                       |                       | 11,002.50        |
| 83 shares Peoria and Eastern Ry. Co. ....                                      | 315,362.50       |                       |                       | 315,362.50       |
| 12 shares Pere Marquette Railway Co. Common Voting Trust Certificates.....     | 664.00           |                       |                       | 664.00           |
| 48 shares Pere Marquette Railway Co. 5 per cent Prior Pref. Voting Trust ..... | 120.00           |                       |                       | 120.00           |
| 93 shares Pittsburgh, Fort Wayne and Chicago R. R. Co.....                     | 2,688.00         |                       |                       | 2,688.00         |
| 206 shares Reading Co. ....  | 14,325.00        |                       |                       | 14,325.00        |
| 18 shares Rensselaer and Saratoga R. R. Co. ....                               | 7,931.00         |                       |                       | 7,931.00         |
| 20 shares Rensselaer and Saratoga Railroad Co..                                | 2,290.91         |                       |                       | 2,290.91         |
| 70 shares Southern Ry. Co.....   |                  | 2,040.00              |                       | 2,040.00         |
| 6 shares Southern Ry. Co. preferred.....                                       | 1,942.50         |                       |                       | 1,942.50         |
| 33 shares Texas & Pacific Ry. Co.....  | 339.00           |                       |                       | 339.00           |
| 33 shares Tri-City Railway and Light Co. preferred                             | 561.00           |                       |                       | 561.00           |
| 153 shares United New Jersey R. R. & Canal Co.                                 | 2,796.75         |                       |                       | 2,796.75         |
| 48 shares United New Jersey Railroad and Canal Co.....                         | 28,894.88        |                       |                       | 28,894.88        |
| 15 shares Wabash Ry. Co. ....  |                  | 8,160.00              |                       | 8,160.00         |
| 16 shares Wabash Ry. Co. preferred.....  | 166.87           |                       |                       | 166.87           |
| 25 shares Wells Fargo and Co.....  | 784.00           |                       |                       | 784.00           |
|  |                  | 1,337.50              |                       | 1,337.50         |

|  |            |              |            |       |           |                |
|--|------------|--------------|------------|-------|-----------|----------------|
| 400 shares F. W. Woolworth Co., preferred.....   | 50,450.00  | .....        | .....      | ..... | .....     | 50,450.00      |
| 166 shares Worcester Consolidated Street Ry.<br>Co. preferred .....                              | 8,326.26   | .....        | .....      | ..... | .....     | 8,326.26       |
|  |            | 2,987,776.78 | .....      | ..... | .....     | \$2,427,858.53 |
| <b>BONDS AND MORTGAGES</b>   |            |              |            |       |           |                |
| On northwest corner of Avenue 'A' and East 13th<br>Street, New York, at 5 per cent. due 1924.... | 70,000.00  | .....        | .....      | ..... | 2,000.00  | 68,000.00      |
| On 90-92 Avenue 'B', New York, at 5½ per cent. due<br>1921.....                                  | 57,500.00  | .....        | .....      | ..... | 57,500.00 | .....          |
| On 218 Avenue "B" New York at 5½ per cent. due 1923  | 12,000.00  | .....        | .....      | ..... | 2,000.00  | 10,000.00      |
| On 26-28 Beaver Street, at 5 per cent., due 1924.....  | .....      | .....        | .....      | ..... | .....     | 325,000.00     |
| On 354 Broadway, New York, at 6 per cent. due 1914...  | 62,700.00  | .....        | 325,000.00 | ..... | .....     | 62,700.00      |
| On 503-11 Broadway, New York at 5½ per cent., due<br>1920.....                                   | .....      | .....        | 448,000.00 | ..... | .....     | 448,000.00     |
| On 924-926 Broadway, New York, at 5 per cent., due<br>1921.....                                  | 86,000.00  | .....        | .....      | ..... | .....     | 86,000.00      |
| On Concord Avenue near 151st St., New York, at 4½<br>per cent. due 1921.....                     | 28,000.00  | .....        | .....      | ..... | .....     | 28,000.00      |
| On 349 Convent Ave., New York, at 5 per cent. due<br>1924.....                                   | 15,000.00  | .....        | .....      | ..... | 500.00    | 14,500.00      |
| On 2749 Eighth Ave., New York, at 5½ per cent. due<br>1921.....                                  | 35,000.00  | .....        | .....      | ..... | .....     | 35,000.00      |
| On 158-160 Eldridge Street and 62 Delancey Street,<br>New York, at 5½ per cent., due 1921.....   | 27,000.00  | .....        | 23,000.00  | ..... | .....     | 50,000.00      |
| On 580 Fifth Avenue, New York City, at 4½ per<br>cent. due 1923 .....                            | 100,000.00 | .....        | 300,000.00 | ..... | .....     | 400,000.00     |
| On 582 Fifth Avenue, New York at 4½ per cent., due<br>1927.....                                  | .....      | .....        | 150,000.00 | ..... | .....     | 150,000.00     |
| On 584 Fifth Avenue, New York at 4½ per cent., due<br>1927 .....                                 | .....      | .....        | 252,000.00 | ..... | .....     | 252,000.00     |
| On 586 Fifth Avenue, New York City at 4½ per cent.,<br>due 1927.....                             | 215,000.00 | .....        | .....      | ..... | .....     | 215,000.00     |

|  | At June 30, 1919 | Increase<br>1919-1920 | Decrease<br>1919-1920 | At June 30, 1920 |
|--|------------------|-----------------------|-----------------------|------------------|
| On 12 Front Street, New York, at $5\frac{1}{4}$ per cent., due 1923.....                                 |                  | \$9,166.67            |                       | \$9,166.67       |
| On 18 Gramercy Park, New York, at $5\frac{1}{4}$ per cent., Second Mortgage due 1922.....                | \$25,000.00      | 5,000.00              |                       | 30,000.00        |
| On 609-13 Greenwich Street, 120-128 Leroy Street, New York, at $5\frac{1}{4}$ per cent, due 1924.....    | 206,000.00       |                       |                       | 206,000.00       |
| On 2157 Hughes Avenue, New York at 5 per cent, due 1921.....   | 3,250.00         |                       |                       | 3,250.00         |
| On 26 John Street, New York, at 5 per cent., due 1921  | 50,000.00        |                       | \$50,000.00           |                  |
| On 824 Madison Avenue, New York, at 5 per cent., due 1919.....   | 60,000.00        |                       | 60,000.00             |                  |
| On 57 Morton Street, New York, at $5\frac{1}{4}$ per cent., due 1919.....                                | 20,500.00        |                       | 1,000.00              | 19,500.00        |
| On southwest corner of Prince and Thompson Streets, New York, at $5\frac{1}{4}$ per cent., due 1924..... | 53,000.00        |                       | 2,625.00              | 50,375.00        |
| On Railroad and 26th Streets, Pittsburgh, Pa. at 6 per cent., due 1921.....                              |                  | 15,000.00             |                       | 15,000.00        |
| On 136-138 Rivington Street, New York, at 5 per cent., due 1920.....                                     | 41,000.00        |                       |                       | 41,000.00        |
| On 46-50 West Street, New York, at $5\frac{1}{4}$ per cent., due 1924.....                               |                  | 200,000.00            |                       | 200,000.00       |
| On 118 William Street, New York, at $5\frac{1}{4}$ per cent., due 1922.....                              |                  | 90,000.00             |                       | 90,000.00        |
| On 745-747 East 6th Street, New York, at $4\frac{1}{4}$ per cent., due 1921.....                         | 40,000.00        |                       |                       | 40,000.00        |
| On 416-18 East 13th Street, New York, at 5 per cent., due 1918.....                                      | 41,000.00        |                       | 41,000.00             |                  |
| On 238 East 15th Street, New York, at $5\frac{1}{4}$ per cent., due 1922.....                            | 17,000.00        |                       |                       | 17,000.00        |

|   |            |            |       |           |            |
|---|------------|------------|-------|-----------|------------|
| On 220 East 24th Street, New York, at 6 per cent., due 1915.....  | 8,000.00   | .....      | ..... | .....     | 8,000.00   |
| On 4 West 43rd Street, New York, at 5½ per cent. due 1930.....    | 34,000.00  | .....      | ..... | .....     | 34,000.00  |
| On 2 East 46th Street, New York, at 5½ per cent., due 1925.....   | .....      | 147,500.00 | ..... | .....     | 147,500.00 |
| On 1-5 West 47th Street, New York, at 4¼ per cent., due 1925..... | .....      | 85,000.00  | ..... | .....     | 85,000.00  |
| On 7-11 West 47th Street, New York, at 4 per cent., due 1924..... | 180,000.00 | .....      | ..... | .....     | 180,000.00 |
| On 17 West 47th Street, New York, at 5½ per cent., due 1924.....  | 43,500.00  | .....      | ..... | 1,000.00  | 42,500.00  |
| On 33 West 47th Street, New York, at 6 per cent., due 1919.....   | 40,000.00  | .....      | ..... | 500.00    | 39,500.00  |
| On 47 West 47th Street, New York, at 5½ per cent., due 1922.....  | 35,000.00  | .....      | ..... | 500.00    | 34,500.00  |
| On 67 West 47th Street, New York, at 5½ per cent., due 1924.....  | 33,000.00  | .....      | ..... | 250.00    | 32,750.00  |
| On 69 West 47th Street, New York, at 5½ per cent., due 1924.....  | 33,000.00  | .....      | ..... | 250.00    | 32,750.00  |
| On 12 West 48th Street, New York, at 5½ per cent., due 1922.....  | 57,500.00  | .....      | ..... | 4,500.00  | 53,000.00  |
| On 30 West 48th Street, New York, at 5 per cent., due 1919.....   | 30,000.00  | .....      | ..... | .....     | 30,000.00  |
| On 34 West 48th Street, New York, at 4¼ per cent., due 1919.....  | 40,000.00  | .....      | ..... | 40,000.00 | .....      |
| On 38 West 48th Street, New York, at 6 per cent., due 1919.....   | 35,750.00  | .....      | ..... | .....     | 35,750.00  |
| On 40 West 48th Street, New York, at 6 per cent., due 1919.....   | 36,350.00  | .....      | ..... | .....     | 36,350.00  |
| On 56 West 48th Street, New York, at 5½ per cent., due 1921.....  | 33,000.00  | .....      | ..... | .....     | 33,000.00  |
| On 58 West 48th Street, New York, at 5 per cent., due 1907.....   | 10,000.00  | .....      | ..... | 10,000.00 | .....      |

|   | At June 30, 1919 | Increase<br>1919-1920 | Decrease<br>1919-1920 | At June 30, 1920 |
|---|------------------|-----------------------|-----------------------|------------------|
| On 61 West 48th Street, New York, at 6 per cent.,<br>due 1923.....                                    | .....            | \$7,500.00            | .....                 | \$7,500.00       |
| On 66 West 48th Street, New York, at 5 per cent.,<br>due 1922.....                                    | \$32,000.00      | .....                 | \$7,500.00            | 24,500.00        |
| On 3 West 50th Street, New York, at 6 per cent., due<br>1922.....                                     | 18,000.00        | .....                 | 3,000.00              | 15,000.00        |
| On 245 West 50th Street, New York, at 4½ per cent.,<br>due 1921.....                                  | 34,000.00        | .....                 | .....                 | 34,000.00        |
| On 27-31 West 55th Street, New York, at 4½ per<br>cent., due 1920.....                                | 30,000.00        | .....                 | 30,000.00             | .....            |
| On 170 West 65th Street, New York, at 5 per cent.,<br>due 1921.....                                   | 12,000.00        | .....                 | .....                 | 12,000.00        |
| On northeast corner 69th Street and Columbus Ave-<br>nue, New York, at 5½ per cent., due 1922.....    | 95,000.00        | .....                 | .....                 | 95,000.00        |
| On 205 West 101st Street, New York, at 6 per cent.,<br>due 1914.....                                  | 105,000.00       | .....                 | .....                 | 105,000.00       |
| On Southwest Cor. 106th Street and West End<br>Avenue, New York City at 6 per cent., due<br>1921..... | 105,000.00       | .....                 | .....                 | 105,000.00       |
| On 336 East 113th Street, New York, at 5 per cent.,<br>due 1920.....                                  | 17,550.00        | .....                 | 550.00                | 17,000.00        |
| On Northwest Cor. Morningside Avenue and 115th<br>Street, New York, at 5 per cent., due 1921.....     | 140,000.00       | .....                 | .....                 | 140,000.00       |
| On 417 West 117th Street, New York, at 5½ per cent.,<br>due 1916.....                                 | 4,000.00         | .....                 | .....                 | 4,000.00         |
| On 518 East 139th Street, New York, at 5½ per cent.,<br>due 1922.....                                 | 24,000.00        | .....                 | 1,000.00              | 23,000.00        |
| On 746-8 East 180th Street, New York, at 5½ per cent.,<br>due 1922.....                               | 19,000.00        | .....                 | .....                 | 19,000.00        |

|   |            |              |            |       |            |
|---|------------|--------------|------------|-------|------------|
| On 753 East 187th Street, New York, at 5½ per cent, due 1922.....       | 19,000.00  | .....        | .....      | ..... | 19,000.00  |
| On 163-173 Sterling Place, Brooklyn, at 5½ per cent., due 1923.....     | 33,000.00  | .....        | .....      | ..... | 33,000.00  |
| On property at Wakenfield, New York City, at 5 per cent., due 1909..... | 70,000.00  | .....        | .....      | ..... | 70,000.00  |
|   |            | 2,671,600.00 | .....      | ..... |            |
|   | 5,000.00   | .....        | 586.67     | ..... | 4,413.33   |
|   | 300,000.00 | .....        | 300,000.00 | ..... |            |
|   |            | 305,000.00   | 537,906.41 | ..... | 537,906.41 |
|   |            |              |            |       |            |
|   | 46,040.00  | .....        | .....      | ..... | 46,040.00  |
|   | 37,300.00  | .....        | .....      | ..... | 37,300.00  |
|   | 115,000.00 | .....        | .....      | ..... | 115,000.00 |
|   | 25,886.25  | .....        | .....      | ..... | 25,886.25  |
|   |            |              |            |       |            |
|   | 92,375.00  | .....        | .....      | ..... | 92,375.00  |
|   | 65,512.50  | .....        | .....      | ..... | 65,512.50  |

4,413,091.67

542,319.74

## MISCELLANEOUS

Notes: Columbia University Athletic Association.....  
 300,000 United States Certificates of Indebtedness  
 Series V. F., 4½ per cent, due 1919.....  
 540,000 United States of America 4½ per cent. Cer-  
 tificates of Indebtedness, due 1920.....

CROCKER SPECIAL RESEARCH FUND  
INVESTMENTS

## BONDS

\$50,000 Chicago, Milwaukee & St. Paul Ry. Co's  
 4 per cent. 25 Year Bonds, due 1934.....  
 42,000 New York Gas & Electric Light, Heat and  
 Power Co's Purchase Money 4 per cent Bonds,  
 due 1949.....  
 115,000 United States of America Third Liberty  
 Loan 4½ per cent. Gold Bonds, Due 1928...  
 26,000 Wabash R. R. Co's First Mortgage 5 per  
 cent. 50 Year Bonds, due 1939.....

## STOCKS

100,000 City of New York 3½ per cent. Regis-  
 tered Corporate Stock (School Houses and  
 Sites, Borough of Queens), due 1929.....  
 700 shares Union Pacific R. R. Co's preferred  
 stock.....

|   | At June 30, 1919 | Increase<br>1919-1920 | Decrease<br>1919-1920 | At June 30, 1920 |
|---|------------------|-----------------------|-----------------------|------------------|
| <b>BONDS AND MORTGAGES</b>  |                  |                       |                       |                  |
| On 644-654 Greenwich Street, New York, at 5 per cent., due 1921.....  | \$150,000.00     |                       |                       | \$150,000.00     |
| On 609-13 Greenwich Street, 120-128 Leroy Street, New York, at 5½ per cent, due 1924.....   | 15,000.00        |                       |                       | 15,000.00        |
| On southeast corner of Lenox Avenue and 117th Street, New York, at 5½ per cent., due 1923....   | 158,000.00       |                       | \$3,000.00            | 155,000.00       |
| On southeast corner of Lenox Avenue and 130th St., New York, at 5½ per cent., due 1923.....   |                  | \$50,000.00           |                       | 50,000.00        |
| On 712 Madison Avenue, New York, at 5½ per cent., due 1923.....   |                  | 30,000.00             |                       | 30,000.00        |
| On 124 West 42nd Street, New York, at 5 per cent., due 1921.....  | 162,500.00       |                       |                       | 162,500.00       |
| On 1 East 64th Street, New York, at 5 per cent., due 1921.....  | 400,000.00       |                       |                       | 400,000.00       |
| On property at Wakefield, New York City, at 5 per cent., due 1909.....  | 70,000.00        |                       |                       | 70,000.00        |
|   | \$1,337,613.75   |                       |                       | \$1,414,613.75   |
| <b>JOHN STEWART KENNEDY FUND</b>  |                  |                       |                       |                  |
| <b>INVESTMENTS—BONDS</b>  |                  |                       |                       |                  |
| \$50,000 Baltimore & Ohio R. R. Co's 4 per cent. Refunding Mortgage Bonds, due 1941 (Pittsburgh, Lake Erie & West Virginia System)..... | 44,687.50        |                       |                       | 44,687.50        |
| 17,000 Chicago, Milwaukee & Puget Sound Ry. Co's 4 per cent. First Mortgage Bonds, due 1949.....  | 16,128.75        |                       |                       | 16,128.75        |
| 25,000 Cleveland Electric Illuminating Co's 5 per cent. First Mortgage Bonds, due 1939....  | 25,192.28        |                       | 9.62                  | 25,182.66        |

|  |            |       |       |          |            |
|--|------------|-------|-------|----------|------------|
| 75,000 Des Plaines Valley Ry. Co's 4½ per cent. First Mortgage Bonds, due 1947. (Guaranteed by Chicago & Northwestern Ry. Co.) | 75,000.00  | ..... | ..... | .....    | 75,000.00  |
| 50,000 Dominion of Canada 5 per cent. Gold Bonds, due 1926   | 49,281.25  | ..... | ..... | .....    | 49,281.25  |
| 100,000 Montana Central Ry. Co's 6 per cent. First Mortgage Bonds, due 1937  | 121,750.02 | ..... | ..... | 1,208.33 | 120,541.69 |
| 36,000 New York Central & Hudson River R. R. Co's 3½ per cent. Mortgage Bonds, due 1907  | 32,940.00  | ..... | ..... | .....    | 32,940.00  |
| 50,000 New York Telephone Co's 4½ per cent. First and General Mortgage Sinking Fund Bonds, due 1939                            | 48,750.00  | ..... | ..... | .....    | 48,750.00  |
| 50,000 Norfolk & Western Ry. Co's 4 per cent. Divisional First Lien and General Mortgage Bonds, due 1944                       | 46,222.50  | ..... | ..... | .....    | 46,222.50  |
| 29,000 Northern Pacific-Great Northern 4 per cent. Joint Bonds, due 1921 (C. B. & Q. collateral)                               | 28,288.75  | ..... | ..... | .....    | 28,288.75  |
| 200,000 Northern Pacific Ry. Co's 3 per cent. Bonds, due 2047 (General Lien Railway and Land Grant)                            | 147,000.00 | ..... | ..... | .....    | 147,000.00 |
| 150,000 St. Paul, Minneapolis & Manitoba R. R. Co's 6 per cent. Consolidated Mortgage Bonds, due 1933                          | 179,400.00 | ..... | ..... | 2,100.00 | 177,300.00 |
| 5,000 United States of America Third Liberty Loan 4½ per cent. Gold Bonds. Due 1928  | 5,000.00   | ..... | ..... | .....    | 5,000.00   |
| 27,000 Wabash R. R. Co's First Mortgage 5 per cent. 50 Year Bonds, due 1939  | 27,033.75  | ..... | ..... | .....    | 27,033.75  |
| 100,000 Wabash R. R. Co's Second Mortgage 5 per cent. Bonds due 1939   | 102,692.34 | ..... | ..... | 134.61   | 102,557.73 |



|   | At June 30, 1919 | Increase<br>1919-1920 | Decrease<br>1919-1920 | At June 30, 1920 |
|---|------------------|-----------------------|-----------------------|------------------|
| <b>STOCKS</b>   |                  |                       |                       |                  |
| 39 shares Central Syndicate Building Com-<br>pany's Stock.....  | \$3,705.00       |                       |                       | \$3,705.00       |
| 1,300 shares Great Northern Iron Ore Certifi-<br>cates.....   | 81,250.00        |                       |                       | 81,250.00        |
| 2,090 shares Great Northern Ry. Co's pre-<br>ferred Stock.....  | 264,100.00       |                       |                       | 264,100.00       |
| 3,200 shares Northern Pacific Ry. Co's stock..  | 407,200.00       |                       |                       | 407,200.00       |
| 300 shares Union Pacific R. R. Co's preferred<br>stock.....   | 28,012.50        |                       |                       | 28,012.50        |
| <b>BONDS AND MORTGAGES</b>  |                  |                       |                       |                  |
| On 29-33 Park Place, New York, at 6 per cent., due<br>1923.....   | 190,000.00       |                       | \$5,000.00            | 185,000.00       |
| On 32 East Broadway, New York, at 5½ per cent., due<br>1923.....  | 30,000.00        |                       | 5,000.00              | 25,000.00        |
| On 609-13 Greenwich Street, 120-128 Leroy Street,<br>New York, at 5½ per cent, due 1924.....              | 4,000.00         |                       |                       | 4,000.00         |
| On north side 108th Street, 125 feet east of Broadway,<br>New York, at 4½ per cent., due 1921.....        | 145,000.00       |                       | 2,000.00              | 143,000.00       |
| On 524-526 West 145th Street, New York, at 5 per<br>cent., due 1921.....                                  | 53,000.00        |                       | 500.00                | 52,500.00        |
|   | \$2,155,634.64   |                       |                       | \$2,139,682.08   |
| <b>Income Special Funds</b>   |                  |                       |                       |                  |
| \$25,000 Pennsylvania Railroad Co.'s Temporary Cer-<br>tificates 10 year 7 per cent. Gold Bonds, due 1930 |                  | \$24,937.50           |                       | 24,937.50        |
| 100,000 United States of America Certificates of In-<br>debtedness Series V.F. 4½ per cent, due 1919....  | 100,000.00       |                       | 100,000.00            |                  |
| 135,000 United States of America 4½ per cent. Cer-<br>tificates of Indebtedness, due 1920.....            |                  | 131,648.80            |                       | 131,648.80       |

|  |          |            |       |            |              |
|--|----------|------------|-------|------------|--------------|
| 125,000 United States of America 4½ per cent. Certificates of Indebtedness, due 1920.....            | .....    | 125,000.00 | ..... | 125,000.00 | .....        |
| STOCKS   |          |            |       |            |              |
| 1,500 Augusta Alken Railway & Electric Corp., 5 per cent. Gold Coupon Note, due 1924 .....           | .....    | 1,500.00   | ..... | 1,500.00   | .....        |
| BONDS AND MORTGAGES  |          |            |       |            |              |
| On 1-5 West 47th Street, New York, at 4½ per cent., due 1924.....                                    | .....    | 6,000.00   | ..... | 6,000.00   | .....        |
| On 582 Fifth Avenue, New York, at 4½ per cent., due 1927 .....                                       | .....    | 83,000.00  | ..... | 83,000.00  | .....        |
|  |          |            |       |            | \$372,086.30 |
| II—Designated Funds  |          |            |       |            |              |
| BONDS  |          |            |       |            |              |
| 4,000 United States of America Second Liberty Loan 4 per cent., Converted Gold Bonds, Due 1942 ..... | 4,000.00 | .....      | ..... | 4,000.00   | .....        |
| 500 United States of America Second Liberty Loan 4 per cent Convertible Gold Bonds, due 1942...      | 500.00   | .....      | ..... | 500.00     | .....        |
| 4,000 United States of America Second Liberty Loan 4½ per cent. Converted Bonds, due 1942...         | .....    | 4,000.00   | ..... | 4,000.00   | .....        |
| 100 United States of America Third Liberty Loan 4½ per cent Bonds, due 1928 .....                    | 96.80    | .....      | ..... | 96.80      | .....        |
| 5,000 United States of America Fourth Liberty Loan 4½ per cent. Bonds, due 1938 .....                | .....    | 5,000.00   | ..... | 5,000.00   | .....        |
| 16,000 Wabash Railroad Co.'s 1st. Mortgage 5 per cent. Bonds, due 1939 .....                         | .....    | 13,120.00  | ..... | 13,120.00  | .....        |
| STOCKS   |          |            |       |            |              |
| 2,759½ shares Common stock American Light and Traction Co.....                                       | .....    | 331,131.00 | ..... | 331,131.00 | .....        |

|   | At June 30, 1919 | Increase<br>1919-1920 | Decrease<br>1919-1920 | At June 30, 1920 |
|---|------------------|-----------------------|-----------------------|------------------|
| <b>BONDS AND MORTGAGES</b>  |                  |                       |                       |                  |
| On 1045 Fifth Avenue, New York, at 4½ per cent., due 1921.....  |                  | 80,000.00             |                       | 80,000.00        |
| On 26 John Street, New York, at 5 per cent., due 1921.....  |                  | 50,000.00             |                       | 50,000.00        |
| On 136 Monroe Street, New York, at 5½ per cent., due 1922.....  |                  | 15,000.00             |                       | 15,000.00        |
| On 1-5 West 47th Street, New York, at 4½ per cent., due 1924.....                                       |                  | 70,000.00             |                       | 70,000.00        |
| On 58 West 48th Street, New York, at 6 per cent., due 1918.....   |                  | 10,000.00             |                       | 10,000.00        |
|   | \$4,596.80       |                       |                       | \$578,347.80     |
| <b>III—General Funds</b>  |                  |                       |                       |                  |
| \$30,000 Manhattan Ry. Co's 4 per cent. Consolidated Mortgage Bonds, due 1990.....                      | 30,000.00        |                       |                       | 30,000.00        |
| 5,000 Norfolk Terminal and Transportation Co's 5 per cent. Terminal First Mortgage Bonds, due 1948..... | 5,099.43         |                       | 3.55                  | 5,095.88         |
| 1,000 City of New York 4½ per cent. Corporation Stock, due 1960.....                                    | 1,005.00         |                       |                       | 1,005.00         |
| 500 City of New York 4½ per cent. Corporation Stock, due 1962.....                                      | 501.88           |                       |                       | 501.88           |
| 21,700 Columbia University Club 5 per cent Bonds, due 1942.....   | 21,700.00        |                       |                       | 21,700.00        |
| 4,400 Columbia University Club 5 per cent. Bonds, due 1942.....   |                  | 4,400.00              |                       | 4,400.00         |
| 168 shares Consolidation Coal Co. of Maryland Stock (par \$100).....                                    | 12,800.00        |                       | 5,765.10              | 7,034.90         |

|   |          |       |          |        |          |
|---|----------|-------|----------|--------|----------|
| 650 United States of America First Liberty Loan<br>3½ per cent Bonds, due 1947.....                       | 650.00   | ..... | .....    | .....  | 650.00   |
| 2,100 United States of America 1st. Liberty Loan<br>3½ per cent. Bonds, due 1947.....                     | .....    | ..... | 2,100.00 | .....  | 2,100.00 |
| 200 United States of America First Liberty Loan<br>4 per cent Converted Gold Bonds, due 1932-47 .         | 200.00   | ..... | .....    | 200.00 | .....    |
| 100 United States of America First Liberty Loan<br>4 per cent Bonds, converted, due 1937.....             | 100.00   | ..... | .....    | .....  | 100.00   |
| 100 United States of America 1st. Liberty Loan<br>Converted 4½ per cent. Bonds due 1947.....              | .....    | ..... | 100.00   | .....  | 100.00   |
| 300 United States of America First Liberty Loan<br>4½ per cent Bonds, converted, due 1947.....            | 300.00   | ..... | .....    | .....  | 300.00   |
| 400 United States of America Second Liberty<br>Loan 4 per cent Bonds, due 1942.....                       | 400.00   | ..... | .....    | 400.00 | .....    |
| 800 United States of America Second Liberty<br>Loan 4½ per cent Bonds, converted, due 1942.               | 800.00   | ..... | .....    | .....  | 800.00   |
| 9,800 United States of America Second Liberty<br>Loan 4½ per cent. converted Gold Bonds, due<br>1942..... | .....    | ..... | 9,770.00 | .....  | 9,770.00 |
| 350 United States of America Third Liberty<br>Loan 4½ per cent. Bonds, due 1928.....                      | .....    | ..... | 350.00   | .....  | 350.00   |
| 1,550 United States of America Third Liberty Loan<br>4½ per cent Bonds, due 1928.....                     | 1,550.00 | ..... | .....    | .....  | 1,550.00 |
| 5,200 United States of America Fourth Liberty Loan<br>4½ per cent Bonds, due 1938.....                    | 5,200.00 | ..... | .....    | .....  | 5,200.00 |
| 4,550 United States of America Fourth Liberty<br>Loan 4½ per cent. Bonds, due 1938.....                   | .....    | ..... | 4,550.00 | .....  | 4,550.00 |
| 350 United States of America Victory Loan 4 per<br>cent Bonds, due 1923.....                              | 350.00   | ..... | .....    | .....  | 350.00   |
| 550 United States of America Victory Loan 4½<br>per cent. Bonds, due 1923.....                            | .....    | ..... | 550.00   | .....  | 550.00   |

|  | At June 30, 1919 | Increase<br>1919-1920 | Decrease<br>1919-1920 | At June 30, 1920 |
|--|------------------|-----------------------|-----------------------|------------------|
| <b>BONDS AND MORTGAGES</b>   |                  |                       |                       |                  |
| On 158-160 Eldridge Street and 62 Delancey Street,<br>New York, at 5½ per cent., due 1921..... | \$23,000.00      | .....                 | \$23,000.00           | .....            |
| On 580-584 Fifth Avenue, New York, at 4½ per cent.<br>due 1923 and 1927 .....                  | 785,000.00       | .....                 | 785,000.00            | .....            |
| On 1045 Fifth Avenue, New York, at 4½ per cent.,<br>due 1921.....                              | 80,000.00        | .....                 | 80,000.00             | .....            |
| On 1-5 West 47th Street, New York, at 4½ per cent.<br>due 1924.....                            | 220,000.00       | .....                 | 161,000.00            | \$59,000.00      |
| On 136 Monroe Street, New York, at 5 per cent., due<br>1919.....                               | 15,000.00        | .....                 | 15,000.00             | .....            |
| Note of The Trustees of Columbia Law Review.....   | .....            | \$1,500.00            | .....                 | 1,500.00         |
|  | \$1,203,656.31   |                       |                       | \$156,607.66     |
| <b>FIRE INSURANCE FUND</b>   |                  |                       |                       |                  |
| \$50,000 Manhattan Ry. Co's 4 per cent. Consolidated<br>Mortgage Bonds, due 1990.....          | 50,000.00        | .....                 | .....                 | 50,000.00        |
|  | \$14,813,329.79  | \$4,500,197.82        | \$2,696,361.28        | \$16,617,166.33  |

## REDEMPTION FUND

|  |                       |
|--|-----------------------|
| Balance in Fund at June 30, 1919.....                | 900,000.00            |
| Add: Securities deposited with Trustees of Fund..... | 100,000.00            |
| Balance in Fund at June 30, 1920.....                | <u>\$1,000,000.00</u> |

Composed of:

## BONDS

|  |              |            |
|--|--------------|------------|
| \$100,000.00 Anglo-French 5 per cent. External Loan Bonds due 1920.....  | \$ 94,875.00 |            |
| 30,000.00 Baltimore & Ohio R. R. Co's. (P., L. E. & W. Va. System) 40-year 4 per cent. Refunding Bonds due 1941..... | 27,450.00    |            |
| 50,000.00 Baltimore & Ohio R. R. Co's (S. W. Division) 3½ per cent. First Mortgage Bonds, due 1925.....              | 44,937.50    |            |
| 40,000.00 Central New England Ry. Co's. 50-year 4 per cent. First Mortgage Bonds, due 1961....                       | 37,211.25    |            |
| 50,000.00 Chicago Union Station Co's 4½ per cent. First Mortgage Gold Bonds, due 1963.....                           | 49,875.00    |            |
| 50,000.00 Northern Pacific-Great Northern 4 per cent. Joint Bonds, due 1921 (C. B. & Q. Colateral).....              | 47,933.75    |            |
| 30,000.00 St. Louis, Southwestern Ry. Co's, 4 per cent. First Mortgage Bonds, due 1989.....                          | 27,750.00    |            |
| 10,000.00 United States of America. Second Liberty Loan of 1917 10/25 year 4¼ per cent. Conv. Bonds. Due 1942.....   | 10,000.00    |            |
| 27,000 United States of America. Third Liberty Loan of 1918 10 Year 4¼ per cent. Gold Bonds. Due 1928.....           | 27,000.00    |            |
| 24,000 United States of America 4¾ per cent. Victory Loan Bonds, due 1923.....                                       | 23,440.80    | 390,473.30 |

## BONDS AND MORTGAGES

|   |            |                       |
|---|------------|-----------------------|
| On 90-92 Avenue B, New York, at 5¼ per cent. due 1921.....                                  | 55,000.00  |                       |
| On 18 Gramercy Park, New York, at 6 per cent., due 1910.....                                | 100,000.00 |                       |
| On 212 Grand Street, New York, at 5½ per cent., due 1922.....                               | 24,750.00  |                       |
| On 93 Park Row, New York, at 5 per cent., due 1923  | 30,000.00  |                       |
| On Northwest corner Second Avenue and 12th Street, New York, at 5½ per cent., due 1922..... | 80,000.00  |                       |
| On 14 West 48th Street, New York, at 6 per cent., due 1920.....                             | 58,000.00  |                       |
| On 52 West 48th Street, New York, at 6 per cent., due 1916.....                             | 10,000.00  |                       |
| On 62 West 48th Street, New York, at 5½ per cent., due 1922.....                            | 20,000.00  |                       |
| On 27-31 West 55th Street, New York, at 5¼ per cent., due 1923.....                         | 30,000.00  |                       |
| On 534-550 West 58th Street, New York, at 4¾ per cent., due 1921.....                       | 100,000.00 |                       |
| On Southwest Corner 174th Street and St. Nicholas Avenue, at 4¾ per cent., due 1922.....    | 100,000.00 | 607,750.00            |
| Cash.....   |            | <u>1,776.70</u>       |
|   |            | <u>\$1,000,000.00</u> |

## UNIVERSITY LAND, BUILDINGS AND EQUIPMENT

|   | At June 30, 1919 |            | Additions<br>1919-20 | Deductions<br>1919-20 | At June 30, 1920 |                |
|---|------------------|------------|----------------------|-----------------------|------------------|----------------|
| Land: 114th to 116th Streets, Amsterdam Avenue and Broadway .....     | \$2,022,440.06   | .....      | .....                | .....                 | \$2,022,440.06   |                |
| Improvements to Grounds .....   | 53,239.90        | .....      | .....                | .....                 | 53,239.90        | \$2,075,679.96 |
| 116th to 120th Streets, Amsterdam Avenue and Broadway .....           | 2,000,000.00     | .....      | .....                | .....                 | 2,000,000.00     |                |
| Improvements to Grounds .....   | 429,601.17       | .....      | .....                | .....                 | 429,601.17       |                |
| 116th Street, north side, Morningside Drive to Amsterdam Avenue ..... | .....            | .....      | .....                | .....                 | .....            | 2,429,601.17   |
| 117th Street, south side, Morningside Drive to Amsterdam Avenue ..... | .....            | .....      | .....                | .....                 | .....            | 563,193.40     |
| Avery Library Building: Construction .....                            | .....            | .....      | .....                | .....                 | .....            | 503,656.95     |
| Crocker Research Building: Construction .....                         | 39,525.85        | .....      | .....                | .....                 | 39,525.85        |                |
| Interest .....  | 7,787.67         | .....      | \$779.10             | .....                 | 8,566.77         |                |
| Charged off to Income Crocker Research Fund ..                        | 47,313.52        | .....      | .....                | .....                 | 48,092.62        |                |
| Earl Hall: Construction .....   | 30,000.00        | .....      | .....                | \$5,000.00            | 35,000.00        | 13,092.62      |
| Engineering Building: Construction .....                              | .....            | 17,313.52  | .....                | .....                 | .....            | 164,844.65     |
| Equipment .....   | 284,075.50       | 164,844.65 | .....                | .....                 | 284,075.50       |                |
| Fayerweather Hall: Construction .....                                 | 20,775.47        | .....      | .....                | .....                 | 20,775.47        |                |
| Equipment .....   | .....            | 304,850.97 | .....                | .....                 | .....            | 304,850.97     |
|   | 274,113.67       | .....      | .....                | .....                 | 274,113.67       |                |
|   | 14,645.43        | .....      | 3,905.00             | .....                 | 18,550.43        |                |
|   | .....            | 288,759.10 | .....                | .....                 | .....            | 292,664.10     |

|  |                       |              |            |        |       |              |
|--|-----------------------|--------------|------------|--------|-------|--------------|
| Furnald Hall:                                  | Construction.....     | 352,666.66   | .....      | .....  | ..... | 352,666.66   |
|  | Equipment.....        | 22,333.34    | .....      | .....  | ..... | 22,333.34    |
|  |                       |              | 375,000.00 | .....  | ..... | 375,000.00   |
| Hamilton Hall:                                 | Construction.....     | 486,572.26   | .....      | .....  | ..... | 486,572.26   |
|  | Equipment.....        | 24,156.49    | .....      | .....  | ..... | 24,156.49    |
| Hartley Hall:                                  | Construction.....     | 335,173.67   | .....      | .....  | ..... | 335,173.67   |
|  | Equipment.....        | 16,799.20    | .....      | .....  | ..... | 16,799.20    |
| Havemeyer Hall:                                | Construction.....     | 516,488.62   | .....      | .....  | ..... | 516,488.62   |
|  | Equipment.....        | 53,474.86    | .....      | .....  | ..... | 53,474.86    |
| Kent Hall:                                     | Construction.....     | .....        | .....      | .....  | ..... | .....        |
| Library Building:                              | Construction.....     | 1,108,213.09 | .....      | .....  | ..... | 1,108,213.09 |
|  | Equipment.....        | 97,037.38    | .....      | 220.58 | ..... | 97,257.96    |
|  | Changes, 1910-14..... | 46,600.00    | .....      | .....  | ..... | 46,600.00    |
| Livingston Hall:                               | Construction.....     | 333,520.98   | .....      | .....  | ..... | 333,520.98   |
|  | Equipment.....        | 17,008.63    | .....      | .....  | ..... | 17,008.63    |
| Model House and Model of Buildings and Grounds | .....                 | .....        | .....      | .....  | ..... | .....        |
| Philosophy Building:                           | Construction.....     | .....        | 350,529.61 | .....  | ..... | 350,529.61   |
| President's House:                             | Construction.....     | 196,830.82   | .....      | .....  | ..... | 196,830.82   |
|  | Furnishing.....       | 23,533.91    | .....      | 876.26 | ..... | 24,410.17    |
| St. Paul's Chapel:                             | Construction.....     | 220,364.73   | .....      | .....  | ..... | 221,240.99   |
|  | Equipment.....        | 266,676.54   | .....      | .....  | ..... | 266,676.54   |
|  | .....                 | 29,846.62    | .....      | .....  | ..... | 29,846.62    |
| Schermerhorn Hall:                             | Construction.....     | 296,523.16   | .....      | .....  | ..... | 296,523.16   |
|  | Equipment.....        | 457,658.17   | .....      | .....  | ..... | 457,658.17   |
|  | .....                 | 35,786.35    | .....      | .....  | ..... | 35,786.35    |
| School of Journalism:                          | Construction.....     | 493,444.52   | .....      | .....  | ..... | 493,444.52   |
|  | Equipment.....        | 534,863.38   | .....      | .....  | ..... | 534,863.38   |
|  | .....                 | 28,637.83    | .....      | .....  | ..... | 28,637.83    |
|  |                       | 563,501.21   | .....      | .....  | ..... | 563,501.21   |



|   | At June 30, 1919 |              | Additions<br>1919-20 | Deductions<br>1919-20 | At June 30, 1920 |              |
|---|------------------|--------------|----------------------|-----------------------|------------------|--------------|
| School of Mines Building: Construction.....                           | \$305,506.29     |              |                      |                       | \$305,506.29     |              |
| Equipment.....  | 19,460.85        | \$324,967.14 |                      |                       | 19,460.85        | \$324,967.14 |
| University Hall:  |                  |              |                      |                       |                  |              |
| Construction.....   | 983,657.05       |              |                      |                       | 983,657.05       |              |
| Equipment.....  | 17,214.26        |              |                      |                       | 17,214.26        |              |
| Equipment:  |                  |              |                      |                       |                  |              |
| Power House.....  | 118,828.52       |              |                      |                       | 118,828.52       |              |
| Gymnasium.....  | 43,149.23        |              |                      |                       | 43,149.23        |              |
| Commons.....  | 15,390.11        |              |                      | \$407.20              | 14,982.91        |              |
| No. 407 West 117th Street, New York.....                              |                  | 1,178,239.17 |                      |                       |                  | 1,177,831.97 |
| No. 411 West 117th Street, New York, (Malson<br>Francaloe).....       |                  | 23,650.00    |                      | 23,650.00             |                  |              |
| No. 413 West 117th Street, New York.....                              |                  | 33,291.39    |                      |                       |                  | 33,291.39    |
| No. 415 West 117th Street, New York.....                              |                  | 23,439.12    |                      |                       |                  | 23,439.12    |
| No. 419 West 117th Street, New York (Columbia<br>House).....          |                  | 23,439.12    |                      |                       |                  | 23,439.12    |
| No. 421 West 117th Street, New York.....                              |                  | 30,000.00    |                      |                       |                  | 30,000.00    |
| No. 431 West 117th Street, New York.....                              |                  | 23,234.80    |                      | 23,234.80             |                  |              |
| No. 433 West 117th Street, New York.....                              |                  | 25,213.98    |                      | 25,213.98             |                  |              |
| Class of 1880 Gates.....  |                  | 24,243.80    |                      | 24,243.80             |                  |              |
| Class of 1881 Flagstaff.....  |                  | 2,000.00     |                      |                       |                  | 2,000.00     |
| Class of 1893 Chapel Bell.....  |                  | 4,600.00     |                      |                       |                  | 4,600.00     |
| Class of 1906 Clock.....  |                  | 5,114.84     |                      |                       |                  | 5,114.84     |
| Equipment of Dining Room and Kitchen,<br>Faculty Club.....            |                  | 1,159.16     |                      |                       |                  | 1,159.16     |
| Fountain of the God Pan.....  |                  | 1,200.00     |                      | 1,200.00              |                  |              |
| Granite Posts for Gate at 119th Street and Am-<br>sterdam Avenue..... |                  | 12,013.50    |                      |                       |                  | 12,013.50    |
| Hamilton Statue.....  |                  | 2,563.00     |                      |                       |                  | 2,563.00     |
|   |                  | 10,900.00    |                      |                       |                  | 10,900.00    |

|  |           |       |            |       |           |            |
|--|-----------|-------|------------|-------|-----------|------------|
| Lighting University Grounds.....   | .....     | ..... | .....      | ..... | .....     | 1,035.00   |
| Pylons (Class of 1890 Arts and Mines Gift)....                           | .....     | ..... | .....      | ..... | .....     | 8,598.72   |
| Setting Bust of Professor Egleston (Class of 1883, Mines, Gift).....     | .....     | ..... | .....      | ..... | .....     | 390.00     |
| Seth Low Memorial Tablet.....  | .....     | ..... | .....      | ..... | .....     | 1,010.00   |
| Van Amringe Memorial.....  | .....     | ..... | .....      | ..... | .....     | 19,701.50  |
| Repairs and Equipment of Old Buildings:                                  |           |       |            |       |           |            |
| East Hall.....   | 5,113.34  | ..... | .....      | ..... | 5,113.34  |            |
| South Hall.....  | 4,490.42  | ..... | .....      | ..... | 4,490.42  |            |
| West Hall.....   | 10,252.67 | ..... | 1,200.00   | ..... | 11,452.67 |            |
| South Court Fountains.....   | .....     | ..... | .....      | ..... | .....     | 21,056.43  |
| Students Army Training Corps Equipment...                                | .....     | ..... | .....      | ..... | .....     | 4,932.88   |
| Assessments:   |           |       |            |       |           | 850.00     |
| Boulevard Sewer.....   | 2,579.90  | ..... | .....      | ..... | 2,579.90  |            |
| 129th Street Sewer.....  | 749.25    | ..... | .....      | ..... | 749.25    |            |
| Opening and acquiring title to Addition to Riverside Park.....           | 8,168.98  | ..... | .....      | ..... | 8,168.98  |            |
| Opening 116th Street.....  | 2,882.77  | ..... | .....      | ..... | 2,882.77  |            |
| Opening 120th Street.....  | 38,956.09 | ..... | 922.50     | ..... | 38,033.59 |            |
| Opening Riverside Drive and Parkway....                                  | 4,814.55  | ..... | .....      | ..... | 4,814.55  |            |
| Expenses During Construction and Removal to New Site—Interest (Net)..... | .....     | ..... | .....      | ..... | .....     | 57,229.04  |
| Miscellaneous (Net).....   | .....     | ..... | 328,364.40 | ..... | .....     |            |
| Expenses of Removal.....   | .....     | ..... | 43,694.28  | ..... | .....     | 372,058.68 |
| Insurance.....   | .....     | ..... | .....      | ..... | .....     |            |
| Interest.....  | .....     | ..... | .....      | ..... | .....     | 59,987.56  |
| Legal Expenses.....  | .....     | ..... | .....      | ..... | .....     | 3,754.40   |
| Outside Street Work.....   | .....     | ..... | .....      | ..... | .....     | 339,812.08 |
| Vaults: East.....  | .....     | ..... | .....      | ..... | .....     | 4,291.07   |
| West.....  | 30,382.79 | ..... | .....      | ..... | 30,382.79 |            |
|  | 37,316.40 | ..... | .....      | ..... | 37,316.40 |            |
|  | .....     | ..... | .....      | ..... | .....     | 107,140.39 |
|  | .....     | ..... | .....      | ..... | .....     | 67,699.19  |

|   | At June 30, 1919 |                      | At June 30, 1920      |                 |
|---|------------------|----------------------|-----------------------|-----------------|
|   |                  | Additions<br>1919-20 | Deductions<br>1919-20 |                 |
| Medical School.....   |                  | \$628,969.31         | .....                 | \$628,969.31    |
| Equipment.....  |                  | 13,224.59            | .....                 | 13,224.59       |
| Library.....  |                  | 1,400.00             | .....                 | 1,400.00        |
| Roof Laboratory.....  |                  | 14,938.07            | .....                 | 14,938.07       |
| School of Dentistry.....  |                  | 18,622.92            | .....                 | 18,622.92       |
| Sloane Hospital for Women.....  |                  | 399,263.14           | .....                 | 399,263.14      |
| Camp Columbia, Morris, Conn.....  |                  | 39,765.27            | .....                 | \$1,076,418.03  |
|   |                  |                      |                       | 39,765.27       |
| CREDITS   |                  |                      |                       |                 |
| Award for widening 120th Street.....  | \$922.50         | 922.50               | .....                 | .....           |
| Interest on deposits of the Building Fund.....  | 11,332.68        | 11,332.68            | .....                 | .....           |
| Interest on deposits of the Schermerhorn Building Fund.....                                     | 115.00           | 115.00               | .....                 | .....           |
| Rents received from Old Buildings.....  | 4,510.00         | 4,510.00             | .....                 | .....           |
| Sale of Old Bricks.....   | 6,019.47         | 6,019.47             | .....                 | .....           |
| Overcharge to Amount shown in Treasurer's Report of July 1, 1898, and subsequently amended..... | 13,809.28        | 13,809.28            | .....                 | .....           |
|   |                  | 36,708.93            | .....                 | .....           |
|   |                  | \$14,980,430.57      | \$511,717.39          | \$16,001,145.03 |
|   |                  |                      | .....                 | 4,672.43        |
| Less Reserve Account Journalism Fire Loss.....  |                  |                      | .....                 | \$15,996,472.60 |

## OTHER PROPERTY

|                                       | At June 30, 1919 | Increase       | Decrease     | At June 30, 1920 |
|---------------------------------------|------------------|----------------|--------------|------------------|
| 83 Barclay Street.....                |                  | 1.00           |              | 1.00             |
| 503/511 Broadway, New York.....       | 688,687.78       |                | 28,807.17    | 659,880.61       |
| 21 Claremont Avenue.....              |                  | 372,893.79     |              | 372,893.79       |
| 29/35 Claremont Avenue.....           |                  | 505,688.49     |              | 505,688.49       |
| 29/35 Claremont Avenue Equipment..... |                  | 33,620.93      |              | 33,620.93        |
| 39/41 Claremont Avenue.....           |                  | 463,683.25     |              | 463,683.25       |
| 18 East 16th Street.....              | 167,109.75       |                |              | 167,109.75       |
| 618 Fifth Avenue.....                 | 101,461.74       |                |              | 144,862.43       |
| 620 Fifth Avenue.....                 | 126,665.90       |                | 5,847.93     | 120,817.97       |
| Lenox Avenue and 130th Street.....    | 60,828.25        |                | 60,828.25    |                  |
| 712 Madison Avenue.....               | 42,003.07        |                | 42,003.07    |                  |
| 72 Murray Street.....                 | 7,923.84         |                | 240.12       |                  |
| 91/93 Ninth Avenue.....               | 27,511.77        |                |              | 7,683.72         |
| 41 West 47th Street.....              | 61,648.22        | 87.50          |              | 27,511.77        |
| 19 West 50th Street.....              | 5,948.68         | 5,292.10       |              | 61,735.72        |
| 2 West 50th Street.....               | 24,949.81        |                | 1,313.15     | 11,240.78        |
| 6 West 51st Street.....               |                  | 1.00           |              | 23,636.66        |
| 407 West 117th Street.....            | 23,650.00        |                | 262.12       | 1.00             |
| 421 West 117th Street.....            | 23,234.80        |                | 249.54       | 23,387.88        |
| 431 West 117th Street.....            | 25,213.98        |                | 309.51       | 22,985.26        |
| 433 West 117th Street.....            | 24,243.80        |                | 280.11       | 24,904.47        |
| Williamsbridge Property.....          | 265,786.44       | 2,803.12       |              | 23,963.69        |
|                                       | \$1,676,867.83   | \$1,427,471.87 | \$140,140.97 | 268,589.56       |
|                                       |                  |                |              | \$2,964,198.73   |

## SPECIAL FUNDS

|  | At June 30,<br>1919 | Additions,<br>1919-1920 | At June 30,<br>1920 |
|--|---------------------|-------------------------|---------------------|
| <b>(A) For General Endowment</b>   |                     |                         |                     |
| <b>BURGESS (ANNIE P.) FUND:</b><br>Bequest of the late Annie P. Burgess to the general endowment of the University. Established 1913.....  | \$63,365.00         | .....                   | \$63,365.00         |
| <b>BURGESS (JOHN W.) FUND:</b><br>Gift of Anonymous Donors to the general endowment of the University. Established 1910..  | 100,000.00          | .....                   | 100,000.00          |
| <b>CARPENTIER (H. W.) ENDOWMENT FUND:</b><br>Legacy of the late Horace W. Carpentier, the income to be expended in such manner and for such purposes as the Trustees may from time to time direct. Established 1918.....   | 799,988.85          | \$400.00<br>Decrease    | 799,588.85          |
| <b>CHEESMAN (T. M.) FUND:</b><br>Bequest of the late Dr. T. M. Cheesman, formerly a trustee of the University, the income to be used for the general purposes of the University. Established 1920 .....  | .....               | 10,000.00               | 10,000.00           |
| <b>DE LAMAR (JOSEPH R.) FUND:</b><br>Bequest of the late Joseph R. De Lamar, the income to be expended in such manner as the Trustees may from time to time direct in accordance with the terms of the bequest. Established 1919 .....   | .....               | 1,999,000.00            | 1,999,000.00        |
| <b>HARRIMAN (REVEREND ORLANDO) FUND:</b><br>Gift of the children of the late Reverend Orlando Harriman, of the Class of 1835, as a memorial to their father, the income, until further action by the Trustees, to be applied to the salary of the Professor of Rhetoric and English. Established 1908..... | 102,500.00          | .....                   | 102,500.00          |
| <b>HEPBURN (A. BARTON) ENDOWMENT FUND:</b><br>Gift of A. Barton Hepburn, the income of which shall be applied, as the Trustees may from time to time provide, to the maintenance and conduct of the School of Business. Established 1918   | 389,000.00          | 99,700.00               | 479,700.00          |

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| <b>JAMES (D. WILLIS) FUND:</b><br>Bequest of D. Willis James, the income to be applied, until further action by the Trustees, to the salary of the Professor of Geology. Established 1908..... | 100,000.00   | .....     | 100,000.00   |
| <b>KENNEDY (JOHN STEWART) ENDOWMENT FUND:</b><br>On account of the legacy of the late John Stewart Kennedy, a Trustee of Columbia University 1903 to 1909. Established 1910 .....              | 2,206,917.86 | 10,571.70 | 2,217,489.56 |
| <b>LANGELOTH (JACOB) FUND:</b><br>Legacy of the late Jacob Langeloth. Established 1915.....  | 5,000.00     | .....     | 5,000.00     |
| <b>MANNERS (EDWIN) FUND:</b><br>Legacy of the late Edwin Manners to establish this Fund. Established 1914.....   | 3,000.00     | .....     | 3,000.00     |
| <b>MILLER (GUY B.) FUND:</b><br>Bequest of the late Guy B. Miller, of the Class of 1898, College of Physicians and Surgeons, for general purposes of the Medical School. Established 1904..... | 10,000.00    | .....     | 10,000.00    |
| <b>MOWER (SARA E.) FUND:</b><br>Bequest of the late Sara E. Mower as a memorial to Mandeville Mower. The income to be used for the general purposes of the University. Established 1919.....   | .....        | 53,808.75 | 53,808.75    |
| <b>PELL (MARY B.) LEGACY:</b><br>Legacy of the late Mary B. Pell, the income to be expended in such manner and for such purposes as the Trustees may from time to time direct.....             | 650.00       | .....     | 650.00       |
| <b>PHOENIX LEGACY:</b><br>On account of one-third part of the residuary estate of the late Stephen Whitney Phoenix, bequeathed to Columbia College in 1881.....                                | 124,531.51   | 12,125.00 | 136,656.51   |

|   | At June 30,<br>1919 | Additions,<br>1919-1920 | At June 30,<br>1920 |
|---|---------------------|-------------------------|---------------------|
| <b>VAN CORTLANDT (ROBERT B.) FUND:</b><br>Bequest of the late Robert B. Van Cortlandt, the income to be expended in such manner and for such purposes as the Trustees may from time to time direct.....   | \$197,000.00        | \$300.00<br>Decrease    | \$196,700.00        |
| <b>WEBBER FUND:</b><br>Legacy of the late John Webber. Established 1918 .....   | 1,000.00            | .....                   | 1,000.00            |
| <b>(B) For Designated Purposes.</b>   |                     |                         |                     |
| <b>ADAMS (ERNEST KEMPTON) FUND FOR PHYSICAL RESEARCH:</b><br>Gift of Edward D. Adams, in memory of his son, the late Ernest Kempton Adams. Such part of the income as shall be designated by the Trustees to be applied to the stipend of the Research Fellow pursuing researches in the Physical Sciences or in their practical applications; the income received in excess of such stipend to be used in the publication and distribution of the results of the investigation carried on by such Fellows. Established 1904..... | 4,093,953.22        | 2,184,505.45            | 6,278,458.67        |
| <b>ALDRICH (JAMES HERMAN) SCHOLARSHIP FUND:</b><br>Gift of James H. Aldrich, of the Class of 1863, to establish this fund in commemoration of the fiftieth anniversary of his graduation. Established 1913.....   | 50,000.00           | .....                   | 50,000.00           |
| <b>ANONYMOUS FUND FOR CHURCH AND CHORAL MUSIC:</b><br>Gift of an Anonymous donor to establish this fund; the income to be used to maintain a Professorship in Church and Choral Music. Established 1913.....  | 5,000.00            | .....                   | 5,000.00            |
| <b>ART PROFESSORSHIP FUND:</b><br>Bequest of Hugo Reflager to found a professorship of the History of Arts. Established 1916.   | 92,500.00           | 22,200.00               | 114,700.00          |
| <b>EVERY ARCHITECTURAL FUND:</b><br>Gift of Samuel P. Avery and Mary Ogden Avery in memory of their deceased son, Henry Ogden Avery. The income of the fund to be applied to the purchase of books relating to architecture, decorations and allied arts. Established 1890, and augmented in 1910 by \$20,000..   | 76,926.04           | 27,699.50               | 104,625.54          |
|   | 50,000.00           | .....                   | 50,000.00           |

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| <b>BARNARD FELLOWSHIP FUND:</b><br>Legacy from the late President Barnard to establish the 'Barnard Fellowship for encouraging Scientific Research.' Established 1889.....  | 10,000.00  | .....     | 10,000.00 |
| <b>BARNARD LIBRARY FUND:</b><br>The residuary estate of the late President Barnard was left to the Trustees of Columbia College to constitute a fund under the name of the 'Barnard Fund for the Increase of the Library', the income of which is to be devoted to the purchase of books, especially those relating to physical and astronomical science; but out of the income of this fund so much as may be necessary is to be applied in procuring a gold medal of the bullion value of not less than \$200, to be styled the 'Barnard Medal for Meritorious Service to Science', to be awarded every five years on the judgment of the National Academy of Science of the United States. The medal will be next awarded in June, 1925. Established 1889..... | 59,501.64  | .....     | 59,501.64 |
| <b>BARNARD (MARGARET) FUND:</b><br>The residuary estate of the late Margaret Barnard, widow of the late President Barnard, was left to the Trustees of Columbia College, 'to augment the sum left by my late husband'. Established 1892.....  | 16,231.67  | .....     | 16,231.67 |
| <b>BECK FUNDS:</b><br>The late Charles Bathgate Beck bequeathed the sum of \$10,000 to be applied as follows: \$2,000 to found one free scholarship, the income to be applied 'to the free yearly tuition and education in said College of one student forever, under such terms and conditions as the rules of said College and said Trustees shall prescribe'. The income of the remaining \$8,000 to be used for an annual prize 'to the student in the Law School who shall pass the best examination in Real Estate Law'. Established 1899.....  |            |           |           |
| Beck Scholarship Fund.....  | \$2,000.00 |           |           |
| Beck Prize Fund.....  | 8,000.00   |           |           |
| <b>BEEKMAN (GERARD) FUND:</b><br>Bequest of the late Gerard Beekman, formerly a Trustee of Columbia University, the income to be used in connection with the work of the Chaplain. Established 1920.....  |            |           |           |
| <b>BEER (JULIUS) LECTURE FUND:</b><br>Legacy of the late Julius Beer, the income of which is to be applied to providing lectures at intervals not exceeding three years, by lecturers nominated by the Faculty of Political Science and confirmed by the Trustees. Established 1903.....  | 10,000.00  | 10,000.00 | 10,000.00 |



|  | At June 30,<br>1919 | Additions,<br>1919-1920 | At June 30,<br>1920 |
|--|---------------------|-------------------------|---------------------|
| <b>BENNETT PRIZE FUND:</b><br>Gift of James Gordon Bennett, the income, or a medal of equal value, to be given for 'an essay in English prose upon some subject of contemporaneous interest in the domestic or foreign policy of the United States'. Established 1893.....   | \$1,000.00          | .....                   | \$1,000.00          |
| <b>BERGH (HENRY) FUND:</b><br>Anonymous Gift, the income to be used for the inculcating of a spirit of kindness and consideration toward the lower animals. Established 1907.....  | 100,000.00          | .....                   | 100,000.00          |
| <b>BLUMENTHAL ENDOWMENT FUND:</b><br>Gift of George Blumenthal for the endowment of a Chair of Politics. Established 1906..  | 100,116.67          | .....                   | 100,116.67          |
| <b>BLUMENTHAL (GEORGE, JR.) SCHOLARSHIP FUND:</b><br>Gift of Mr. and Mrs. George Blumenthal, the income to be awarded to students of Medicine to cover the cost of tuition, or for other purposes. Established 1909.....   | 19,667.50           | .....                   | 19,667.50           |
| <b>BONDY (EMIL C.) FUND:</b><br>Legacy of the late Emil C. Bondy, the income of which is to be applied, first, toward investigation into the cause, prevention and cure of cancer, and second, toward general research in medicine and surgery and their allied subjects. Established 1916.....  | 100,000.00          | .....                   | 100,000.00          |
| <b>BRAINARD (EDWARD SUTLIFF) MEMORIAL PRIZE FUND:</b><br>Gift of Miss Phoebe T. Sutliff in memory of her nephew Edward Sutliff Brainard of the Class of 1921. The income to be awarded annually to that student in the graduating class of Columbia College who is adjudged by his classmates, according to such rules as the Faculty may prescribe, as most worthy of distinction on the ground of his qualities of mind and character. Established 1920..... | .....               | 1,200.00                | 1,200.00            |
| <b>BRIDGHAM (SAMUEL WILLARD) FUND:</b><br>Gift of Mrs. Fanny Bridgham to establish this fund, in memory of the late Samuel Willard Bridgham, of the Class of 1867, School of Mines, the income to be applied to the support of a Fellowship to be awarded annually by the Faculty of Applied Science. Established 1915..   | 21,849.33           | .....                   | 21,849.33           |

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| <b>BULL (WILLIAM T.) MEMORIAL FUND:</b><br>From the William T. Bull Memorial Fund Committee in honor of the late William T. Bull, M. D., the income to be applied to meet the cost of conducting original research under the direction of the Department of Surgery. Established 1911.....                                       | 32,853.40  | 618.52<br>Decrease | 32,234.88  |
| <b>BUNNER PRIZE FUND:</b><br>Gift of friends of the late Henry Cuyler Bunner, the income to be used to provide every year the 'H.C. Bunner Medal', to be given to the student who shall present the best essay on an assigned subject in American literature. Established 1896.....  | 1,247.00   | .....              | 1,247.00   |
| <b>BURGESS (ANNIE P.) SCHOLARSHIP FUND:</b><br>Bequest of the late Annie P. Burgess to establish this fund; the income to be applied to the tuition and expenses each year of a worthy and deserving young man of good habits and Christian character. Established 1913.....   | 5,000.00   | .....              | 5,000.00   |
| <b>BURGESS (DANIEL M.) SCHOLARSHIP FUND:</b><br>Bequest of the late Annie P. Burgess to establish this fund; the income to be applied to the tuition and expenses each year of a worthy and deserving young man of good habits and Christian character. Established 1913.....  | 5,000.00   | .....              | 5,000.00   |
| <b>BUTLER (NICHOLAS MURRAY) MEDAL FUND:</b><br>Gift of Archer M. Huntington to establish this fund; the income to be used in providing a gold medal every five years for the most distinguished contribution made anywhere in the world to Philosophy, or to educational theory, practice or administration. Established 1914... | 3,000.00   | .....              | 3,000.00   |
| <b>BUTLER (RICHARD) SCHOLARSHIP FUND:</b><br>Gift of Mrs. Richard Butler in memory of her deceased husband, Richard Butler. Open to students born in the State of Ohio. Established 1903.....  | 5,424.52   | .....              | 5,424.52   |
| <b>CAMPBELL SCHOLARSHIP FUND:</b><br>Gift of \$3,000 each from Miss Maria L. Campbell and Miss Catherine B. Campbell for the establishment of two scholarships in the College, in memory of Robert B. Campbell, of the Class of 1844, and Henry P. Campbell, of the Class of 1847. Established 1900.....                         | 6,000.00   | .....              | 6,000.00   |
| <b>CARPENTIER (EDWARD R.) FUND:</b><br>Gift of Mrs. Maria H. Williamson for the endowment of a 'Professorship, or an endowed lectureship, on the origins and growth of civilizations among men'. Established 1906....  | 250,000.00 | .....              | 250,000.00 |

|  | At June 30,<br>1919 | Additions,<br>1919-1920 | At June 30,<br>1920 |
|--|---------------------|-------------------------|---------------------|
| <b>CARPENTIER (JAMES S.) FUND:</b><br>Gift from General H. W. Carpentier to establish a fund in memory of his brother, James S. Carpentier, for the benefit of the Law School. Established 1903.....   | \$300,000.00        | .....                   | \$300,000.00        |
| <b>CARPENTIER (R. S.) FUND:</b><br>Gift from General H. W. Carpentier towards a professorship in the Medical School, in memory of Reuben S. Carpentier. Established 1904.....  | 100,000.00          | .....                   | 100,000.00          |
| <b>CENTER FUND:</b><br>Gift of Mary E. Ludlow, in memory of her son, the late Robert Center, the income to be applied either to the salary of a Professorship of Music, or to be used in any one or more of these ways or such other ways as shall in the judgment of the Trustees tend most effectively to elevate the standard of musical instruction in the United States, and to offer the most favorable opportunities for acquiring instruction of the highest order. Established 1896.. | 178,046.50          | .....                   | 178,046.50          |
| <b>CHAMBERLAIN (JOSEPH P.) ENDOWMENT FUND:</b><br>Gift of Mr. Joseph P. Chamberlain for the endowment of a chair of legislation. Established 1917 .....  | 150,000.00          | .....                   | 150,000.00          |
| <b>CHANDLER (CHARLES FREDERICK) FUND:</b><br>From the Alumni of Columbia University to establish this fund in honor of Professor Charles Frederick Chandler; the income to be applied to the delivery and publication of at least one public lecture each year on some phase of the science of Chemistry, etc. Established 1910.   | 7,346.64            | .....                   | 7,346.64            |
| <b>CHANLER PRIZE FUND:</b><br>Bequest of J. Winthrop Chanler, of the Class of 1847, to found an annual prize for 'the best original manuscript essay in English prose on the History of Civil Government of America, or some other historical subject'. Established 1877.....  | 1,087.25            | .....                   | 1,087.25            |
| <b>CHAPEL MUSIC FUND:</b><br>Gift of Gerard Beekman of the Class of 1864 to establish this fund; the income to be applied to the purchase of suitable music for use in the services in St. Paul's Chapel. Established 1913.  | 1,049.35            | .....                   | 1,049.35            |

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| <b>CLARK SCHOLARSHIP FUND:</b>  |           |        |           |
| Bequest of the late Alonso Clark, M.D., formerly President of the College of Physicians and Surgeons, for the purpose of promoting the discovery of new facts in medical science. First prize bestowed October 1, 1894.....   | 14,932.75 | 300.06 | 15,232.81 |
| <b>CLASS OF 1848 SCHOLARSHIP FUND:</b>  |           |        |           |
| Gift of an anonymous friend, 1902.....  | 10,000.00 | .....  | 10,000.00 |
| <b>CLASS OF 1885, SCHOOL OF MINES, FUND:</b>  |           |        |           |
| Gift of the Class of 1885, School of Mines, in celebration of the twenty-fifth anniversary of their graduation; the income to be applied to the maintenance of a Scholarship in the Schools of Applied Science. Established 1910.....                                       | 10,559.43 | .....  | 10,559.43 |
| <b>CLASS OF 1888 SCHOOL OF MINES FUND:</b>  |           |        |           |
| For the maintenance of the Class of 1888 Gates. Established 1917.....   | 400.00    | .....  | 400.00    |
| <b>CLASS OF 1889 MEDAL FUND:</b>  |           |        |           |
| Gift of the Class of 1889, School of Mines, to establish this fund in celebration of the twenty-fifth anniversary of their graduation, the income to be applied to the cost of striking a medal to be awarded triennially. Established 1915.....                            | 500.00    | .....  | 500.00    |
| <b>CLASS OF 1892 ARTS AND MINES FUND:</b>   |           |        |           |
| Gift of the Class of 1892 Arts and Mines for the endowment of rooms 633 Hartley and 431 Furrall, the occupancy thereof to be awarded as provided in the deed of gift. Established 1917.....   | 6,600.00  | .....  | 6,600.00  |
| <b>CLASS OF 1895 ARTS AND MINES FUND:</b>   |           |        |           |
| Gift of the Class of 1895 Arts and Mines, the income to be expended in such manner and for such purposes as the Trustees may from time to time direct.....  | 5,000.00  | .....  | 5,000.00  |
| <b>CLASS OF 1901 DECENNIAL FUND:</b>  |           |        |           |
| Gift of the Class of 1901, College and Applied Science, to establish this fund, the income of which is to be used for the purpose of defraying, or assisting to defray, the expenses of maintaining the work of the Committee on Employment of Students. Established 1911.. | 1,392.81  | .....  | 1,392.81  |

|  | At June 30,<br>1919 | Additions,<br>1919-1920 | At June 30,<br>1920 |
|--|---------------------|-------------------------|---------------------|
| <b>CLASS OF 1905 FUND:</b><br>Gift of the Class of 1905, College and Science, to establish this fund, the income to be disposed of yearly by direction of the Class, the accumulated interest being added to the principal if the Class make no direction. In 1930 the entire fund with accumulations and additions shall be applied to some University, athletic or alumni, activity as directed by the Class and if the Class make no direction, the entire fund with accumulations and additions shall become the property of the University, as a gift from the Class. Established 1915<br><b>COCK, (THOMAS F., M.D.) PRIZE FUND:</b><br>Legacy from the late Augustus C. Chapin, the income to be used to provide an annual prize to be known as the 'Thomas F. Cock, M.D., Prize' for the best thesis on puerperal fever. Established 1915.....  | \$1,091.73          | \$127.12                | \$1,218.85          |
| <b>COLLINS (PERRY McDONOUGH) SCHOLARSHIP FUND:</b><br>Bequest of the late Kate Collins Brown; the annual income to be divided into amounts of Three hundred dollars (\$300) to be paid annually under such rules and regulations as the Board of Trustees of the College may from time to time establish, to each of those undergraduates in the academic and scientific courses of the College whose pecuniary condition and resources are, in the judgment of the Board of Trustees, insufficient to defray the expenses of his college education; and if the College is unable in any year to use the entire income of the said Fund for the purposes aforesaid, after making every proper effort so to do, the balance of the income from the Fund in that year, not needed for the aforesaid purposes, shall be applied to the general purposes of the academic and scientific departments of the College. Established 1918 | 1,124.52            | .....                   | 1,124.52            |
| <b>COLUMBIA FELLOWSHIP FUND:</b><br>Established by the Trustees for a traveling fellowship in the Department of Architecture in recognition of the liberality of Mr. F. Augustus Schermerhorn of the Class of 1868, to this Department. The fellowship is awarded in even-numbered years. Established 1889...<br>(Changed to Schermerhorn (F. Augustus) Fund)  | 560,157.55          | .....                   | 560,157.55          |
| <b>COLUMBIA HOUSE FUND:</b><br>Income to be used primarily for work in connection with the Americanization of adult immigrants. Established 1918.....  | 13,000.00           | 13,000.00<br>Decrease   | .....               |
|  | 17,200.00           | 17,200.00<br>Decrease   | .....               |

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| <b>COLUMBIA HUDSON-FULTON PRIZE FUND:</b><br>Gift of the representatives of the various Committees having charge of the reception given on the University grounds in October, 1909, under the auspices of the Hudson-Fulton Celebration Commission, the income to be used for an annual prize, or prizes, to be known as the Columbia Hudson-Fulton Prize, or Prizes, for an athletic event. Established 1909.  | 1,000.00     | .....     | 1,000.00     |
| <b>COLUMBIA UNIVERSITY FOOTBALL ASSOCIATION FUND:</b><br>From the Trustees of the trust created by the Columbia University Football Association, the income to be applied towards the support of athletic teams or crews representing Columbia University in intercollegiate sports. Established 1911.....  | 10,037.72    | .....     | 10,037.72    |
| <b>CONVERS (E. B.) PRIZE FUND:</b><br>Gift of Miss Alice Convers and Miss Clara B. Convers to endow, in memory of their brother, Ebenezer Buckingham Convers, of the Class of 1866, a prize in the Columbia Law School. Established 1906.....   | 1,100.00     | ..        | 1,100.00     |
| <b>COTHEAL FUND:</b><br>Gift of Mrs. James R. Swords and Mrs. Samuel Lawrence as a memorial to their brother, Alexander I. Cotheal, the income to be used for the purchase of books in the Oriental Languages, or relating to Oriental countries. Established 1896.....   | 17,024.87    | .....     | 17,024.87    |
| <b>CRAGIN (E. B.) ENDOWMENT FUND:</b><br>Gifts of various donors to establish this fund in memory of the late Dr. Edwin B. Cragin, the net income to be applied to the support of the Social Service work of the Sloane Hospital for Women, or, in the event that the Social Service work of the said Hospital is otherwise provided for or is discontinued, then such net income shall be expended in such other manner as the Board of Managers of the Hospital may from time to time direct. Established 1919..... | 60,409.05    | 60,409.05 | 60,409.05    |
| <b>CROCKER (GEORGE) SPECIAL RESEARCH FUND:</b><br>Bequest of the late George Crocker, the income to be used in Cancer Research. Established 1911.....   | 1,441,298.13 | 10,808.68 | 1,452,106.81 |

|   | At June 30,<br>1919 | Additions<br>1919-1920 | At June 30,<br>1920 |
|---|---------------------|------------------------|---------------------|
| <b>CROSBY (WILLIAM O.) COLLECTION OF LANTERN SLIDES FUND:</b><br>Gift of \$1,800 from friends of Professor William O. Crosby, of Boston, to establish and maintain the collection of geological lantern slides in the Department of Geology known by above title. One hundred dollars was made immediately available and \$1,700 is to constitute a permanent fund, the income only to be used for above purposes. Established 1913   | \$1,700.00          | .....                  | \$1,700.00          |
| <b>CURRIER (NATHANIEL) FUND:</b><br>Legacy of Lura Currier, to establish the Nathaniel Currier Fund, the income to be used for the purchase of books for the Library. Established 1908.....   | 50,000.00           | .....                  | 50,000.00           |
| <b>CURTIS FELLOWSHIP FUND:</b><br>Gift of the George William Curtis Memorial Committee to establish a fellowship in the School of Political Science in Columbia University, to bear the name and to perpetuate the memory of the late George William Curtis, the holder of the fellowship to devote himself to the study of the science of government, with a special view to its application to the then existing condition of the United States, or of the State or City of New York, and to publish a monograph on some subject relating to the then existing condition of the United States, etc. Established 1899..... | 10,000.00           | .....                  | 10,000.00           |
| <b>CURTIS (GEORGE WILLIAM) MEDALS FUND:</b><br>Gift from an associate of George William Curtis in the Civil Service Reform work. Established 1902.....  | 1,300.00            | .....                  | 1,300.00            |
| <b>CUTTING (W. BAYARD) FUND:</b><br>Gift of Mrs. W. Bayard Cutting and her children to establish this fund in memory of the late W. Bayard Cutting, of the Class of 1869; the income to provide traveling fellowships. Established 1913.....  | 200,000.00          | .....                  | 200,000.00          |
| <b>CUTTING (W. BAYARD, JR.) FELLOWSHIP FUND:</b><br>Gift of W. Bayard Cutting, to establish the 'W. Bayard Cutting, Jr. Fellowship Fund'. The income of the fund (to be not less than \$600) is payable to the Graf Erwein von Wurmb and the Gräfin Eva von Wurmb during their lifetime; thereafter, the income shall be used to provide a fellowship in International Law, to be awarded annually at the pleasure of the Trustees, to that student, who, in their judgment, shall have attained a standard of excellence to justify the award. Established 1912.....   | 15,000.00           | .....                  | 15,000.00           |

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| <b>DACOSTA PROFESSORSHIP FUND:</b><br>The late Charles M. DeCosta, a member of the Class of 1855, bequeathed to the Trustees of Columbia College \$100,000. Of this sum, the Trustees, on October 6, 1891, for the endowment of a chair in the Department of Biology, set apart \$80,000, which has been increased by the profits of certain investments to.....  | 86,576.83  | ..... | 86,576.83  |
| <b>DARLING (EDWARD A.) PRIZE FUND:</b><br>Bequest of the late Edward A. Darling, formerly Superintendent of Buildings and Grounds, the income to be awarded as a prize each year at Commencement to that student of the senior class in Engineering whose work during his course of study is voted by his classmates to have been the most honest and thorough. Established 1903.....   | 1,064.75   | ..... | 1,064.75   |
| <b>DEAN LUNG PROFESSORSHIP OF CHINESE FUND:</b><br>Gift of an anonymous friend to found a department of Chinese Languages, Literatures, Religion and Law, and especially for the establishment of a Professorship to be known as the Dean Lung Professorship of Chinese. Established 1901.....  | 226,200.00 | ..... | 226,200.00 |
| <b>DEUTSCHER VEREIN PRIZE FUND:</b><br>Gift of the Deutscher Verein in Columbia University to establish an annual prize in German. Established 1917.....  | 1,000.00   | ..... | 1,000.00   |
| <b>DEVENDORF (DAVID M.) SCHOLARSHIP FUND:</b><br>Gift of Mrs. David M. Devendorf, to establish the 'David M. Devendorf Scholarship Fund' as a memorial to her deceased husband, David M. Devendorf; the income of which is to provide a scholarship in the College of Physicians and Surgeons. Established 1911.....  | 6,500.00   | ..... | 6,500.00   |
| <b>DEWITT (GEORGE C.) SCHOLARSHIP FUND:</b><br>Gift of Mrs. George C. Dewitt of New York to establish this fund, the net annual income to be awarded as a scholarship by the Faculty of Law to any graduate of Columbia College, of Christian parentage and of good mental and moral standing in his class, who may need such assistance to enable him to pursue the three-years' course at the Law School and who, in the judgment of the Faculty of Law, shall be worthy of such privilege; provided that the holder of this scholarship shall reside in one of the Residence Halls of the University during his period of study. Established 1917..... | 15,301.75  | ..... | 15,301.75  |



|  | At June 30,<br>1919 | Additions,<br>1919-1920 | At June 30,<br>1920 |
|--|---------------------|-------------------------|---------------------|
| <b>DOUGHTY (FRANCIS E.) SCHOLARSHIP FUND:</b><br>Bequest of Phebe Caroline Swords to establish the 'Francis E. Doughty, M.D., Scholarship Fund' in the College of Physicians and Surgeons, open to members of any class. Established 1912.....   | \$10,000.00         | .....                   | \$10,000.00         |
| <b>DRISLER CLASSICAL FUND:</b><br>Gift of Seth Low, formerly President of the University, for the endowment of the 'Henry Drisler Classical Fund' for the purchase of books, maps, charts, busts and such other equipment as will tend to make instruction in the classics more interesting and effective. Established 1894.....   | 10,704.64           | .....                   | 10,704.64           |
| <b>DU BOIS (DR. ABRAM) MEMORIAL FUND:</b><br>Gift of William A. Du Bois, Matthew B. Du Bois and Katharine Du Bois, in memory of their father, Doctor Abram Du Bois, the income to be applied to the maintenance of a fellowship to be known as the Doctor Abram Du Bois Fellowship, to be open to a graduate of the College of Physicians and Surgeons devoting himself to the subject of diseases of the eye. Established 1910.....                                       | 18,000.00           | .....                   | 18,000.00           |
| <b>DYCKMAN FUND:</b><br>Gift of Isaac Michael Dyckman in memory of his uncle, Dr. Jacob Dyckman and Dr. James Dyckman, both of the College of Physicians and Surgeons, to establish the 'Dyckman Fund for the Encouragement of Biological Research', 'the interest derived therefrom to be devoted annually to such object consistent with the purposes of the gift, as shall be recommended by the Department of Zoology and approved by the President.' Established 1899 | 10,324.06           | .....                   | 10,324.06           |
| <b>EARLE PRIZE FUND:</b><br>Gift of the Earle Memorial Committee to establish the Earle Prize in Classics. Established 1907.....   | 1,302.80            | .....                   | 1,302.80            |
| <b>EATON PROFESSORSHIP FUND:</b><br>Legacy from the late Dorman B. Eaton to endow and maintain a Professorship of Municipal Science and Administration in the College. Established 1903.....   | 100,000.00          | .....                   | 100,000.00          |

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| <b>EINSTEIN FUND:</b><br>Gift of Dr. and Mrs. Charles Waldstein, as a memorial to Mrs. Waldstein's parents, Mr. and Mrs. D. L. Einstein; the income of which is to be awarded annually to that graduate student doing the best and most original work in the field of American Diplomacy. Established 1911   | 4,953.09   | .....     | 4,953.09   |
| <b>ELSBERG (ALBERT MARION) PRIZE FUND:</b><br>Gift of Mrs. Albert Elsberg to establish this fund as a memorial to her son, Albert Marion Elsberg, of the Class of 1905. The income to provide the 'Albert Marion Elsberg Prize in Modern History'. Established 1912.....   | 2,000.00   | .....     | 2,000.00   |
| <b>EMMONS (SAMUEL FRANKLIN) MEMORIAL FUND:</b><br>Amount collected by the Committee of the Emons Memorial Fund for a fellowship in Scientific Research. Established 1913.....  | 13,923.27  | .....     | 13,923.27  |
| <b>FINE ARTS ENDOWMENT FUND:</b><br>Gift of an anonymous donor to establish this fund for the benefit of the School of Architecture. Established 1913.....   | 250,000.00 | 12,731.67 | 262,731.67 |
| <b>GARTH MEMORIAL FUND:</b><br>Gift of Horace E. Garth to establish a fellowship in Political Economy in memory of his son, the late Granville W. Garth. Established 1904.....   | 16,333.66  | .....     | 16,333.66  |
| <b>GEBHARD FUND:</b><br>Bequest of Frederick Gebhard to found a Professorship of German Language and Literature. Established 1843.....   | 20,000.00  | .....     | 20,000.00  |
| <b>GERMANISTIC FUND:</b><br>Gift of the Germanistic Society and other donors, the income to be applied to the maintenance of instruction and research in matters relating to the German peoples. Established 1920..  | .....      | 14,700.00 | 14,700.00  |
| <b>GERMAN LECTURE FUND:</b><br>Gifts for an endowment for Public Lectures in German at the University, the income to be used for advertising, printing, slides, etc. Established 1901.....   | 1,230.85   | .....     | 1,230.85   |
| <b>GILDER (RICHARD WATSON) FUND FOR THE PROMOTION OF GOOD CITIZENSHIP:</b><br>Contributions by the friends of the late Richard Watson Gilder to establish this fund in his honor, the income to be used to enable succeeding classes of students to devote themselves as 'Gilder Fellows' to the investigation and study of political and social conditions in this country and abroad, etc. Established 1911..... | 47,601.51  | .....     | 47,601.51  |

|   | At June 30,<br>1919 | Additions,<br>1919-1920 | At June 30,<br>1920 |
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| <b>GOLDSCHMIDT (SAMUEL ANTHONY) FELLOWSHIP FUND:</b><br>Gift of George B. Goldschmidt, to establish this fund, as a memorial to Samuel Anthony Goldschmidt, of the Class of 1871, the income to be used for the maintenance of a fellowship in Chemistry. Established 1908.....   | \$16,366.18         | .....                   | \$16,366.18         |
| <b>GOTTHEIL (GUSTAV) LECTURESHIP FUND:</b><br>Gift from Temple Emanuel to establish this lectureship, the holder of which is to be nominated by the Professors in the Department of Semitic Languages, subject to confirmation by the Trustees. Established 1903.....   | 10,265.80           | .....                   | 10,265.80           |
| <b>GOTTSBERGER (CORNELIUS HEENEY) FELLOWSHIP FUND:</b><br>Bequest of Ellen Josephine Banker to establish a fellowship to bear the name and be in memory of her deceased brother, Cornelius Heeney Gottsberger. Established 1904.....  | 9,500.00            | .....                   | 9,500.00            |
| <b>GREEN PRIZE FUND:</b><br>Gift of Mr. and Mrs. Asher Green to establish this fund, in memory of their son, a member of the Class of 1914, the income to provide the Green Prize in the College. Established 1913.....   | 1,000.00            | .....                   | 1,000.00            |
| <b>GROSVENOR (ROBERT) MEMORIAL FUND:</b><br>Gift of Mr. William Grosvenor of Providence, R. I., in behalf of his mother and her family, in memory of Robert Grosvenor, deceased, a former member of the Class of 1918 in the Medical School. The income to be used for the purchase of books for the Library at the Medical School..... | .....               | 2,500.00                | 2,500.00            |
| <b>HALL (GEORGE HENRY) FUND:</b><br>Bequest of the late George Henry Hall to establish this fund, the income of which is to be used to maintain continuously one scholar in the University for the full term of four years, such scholar to be selected by the Trustees. Established 1913.....  | 14,363.22           | .....                   | 14,363.22           |
| <b>HAMILTON (ADELAIDE) BEQUEST:</b><br>Gift of Miss Adelaide Hamilton to be set apart as a fund for the purchase of books, as a memorial of her father, John Church Hamilton, a son of Alexander Hamilton, a proper bookplate to be set in each volume purchased with the income of the fund. Established 1917.....                     | 1,000.00            | .....                   | 1,000.00            |

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| <b>HARSEN SCHOLARSHIP FUND:</b><br>Founded by the late Jacob Harsen, M.D., in 1859, the income to be given in prizes. Under an order of the N. Y. Supreme Court in 1903, the income is thereafter to be used for scholarships in the Medical School, to be known as the Harsen Scholarships .....   | 31,332.73 | 31,332.73 | 31,332.73 |
| <b>HARTLEY (FRANK) SCHOLARSHIP FUND:</b><br>Gifts from friends of the late Frank Hartley, M.D., to endow a Scholarship in the College of Physicians and Surgeons, as a memorial. Established 1914.....  | 4,412.33  | 4,412.33  | 4,412.33  |
| <b>ILLIG FUND:</b><br>Bequest of William C. Illig, of the Class of 1882, School of Mines, the income to be applied to the purchase of prizes to be awarded to students of the graduating class of the School of Mines, who shall, in the judgment of the Faculty, have merited the same by commendable proficiency in such scientific subjects as the Faculty may designate. Established 1898.. | 2,223.99  | 2,223.99  | 2,223.99  |
| <b>INDO-IRANIAN FUND:</b><br>Gift of an anonymous donor to found this Fund, the income to be used for the maintenance of the Department of Indo-Iranian Languages. Established 1908.....  | 15,000.00 | 15,000.00 | 15,000.00 |
| <b>JACOBI WARD FUND:</b><br>Gift of an anonymous donor 'to endow a ward for children in the Roosevelt Hospital'. Established in 1899 as a memorial to the donor's wife and in honor of Dr. Abraham Jacobi   | 59,355.42 | 59,355.42 | 59,355.42 |
| <b>JANEWAY LIBRARY FUND:</b><br>Gift of Mrs. Russell Sage to establish the E. G. Janeway Library Endowment Fund; the income of which is to be devoted to the maintenance and extension of the Janeway Library in the College of Physicians and Surgeons. Established 1912.....  | 26,722.88 | 26,722.88 | 26,722.88 |
| <b>JEFFERSON STATUE MAINTENANCE FUND:</b><br>For the care and repair of the Statue of Thomas Jefferson. Established 1917. Original gift \$1589.92, to which has been added the accrued income of the Fund .....   | 1,694.36  | 69.62     | 1,763.98  |
| <b>LASHER (JOHN K.) FUND:</b><br>Bequest of the late John K. Lasher, Jr. The income to be applied toward the support of the work of the Columbia University Christian Association. Established 1920.....  | 1,000.00  | 1,000.00  | 1,000.00  |
| <b>LAW ALUMNI LIBRARY FUND:</b><br>The income to be applied, as the Trustees may from time to time determine, for the improvement of the Law Library. Established 1916.....   | 1,500.00  | 1,500.00  | 1,500.00  |

|   | At June 30,<br>1919 | Additions,<br>1919-1920 | At June 30,<br>1920 |
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| <b>LAW LIBRARY FUND:</b>  |                     |                         |                     |
| Created by act of the Trustees on March 5, 1900, by the consolidation of the Alexander Cole gift (\$1,500), John J. Jenkins Legacy (\$500); John McKeon Fund (\$1,000), Samson Simpson Fund (\$1,000); and Edgar J. Nathan Gift (\$250), the income to be applied to the purchase of law books. Augmented by act of the Finance Committee, October 2, 1907, by adding the Pyne Law Gift (\$1000)..... | \$5,250.00          | .....                   | \$5,250.00          |
| <b>LEE (THE) FUND:</b>  |                     |                         |                     |
| Gift of Dr. and Mrs. Frederic S. Lee to establish this fund; the income to be used to meet the cost of equipment and research in the Department of Physiology. Established 1914   | 20,000.00           | .....                   | 20,000.00           |
| <b>LOUBAT FUND:</b>   |                     |                         |                     |
| Gift of Joseph F. Loubat for prizes to be given every five years for works in the English Language on the History, Geography, Archaeology, Ethnology, Philology or Numismatics of North America. First prize, \$1,000; second prize, \$400. Established 1892.....   | 7,000.00            | .....                   | 7,000.00            |
| <b>LOUBAT PROFESSORSHIP FUND:</b>   |                     |                         |                     |
| Gift of Joseph F. Loubat to establish the Loubat Professorship in American Archaeology. Established 1903.....   | 100,000.00          | .....                   | 100,000.00          |
| <b>MAISON FRANÇAISE ENDOWMENT FUND:</b>   |                     |                         |                     |
| Gift of Robert Bacon, the income to be used in defraying the running expenses of the Maison Française. Established 1913.....  | 5,000.00            | .....                   | 5,000.00            |
| <b>MARTIN (FREDERICK TOWNSEND) FUND:</b>  |                     |                         |                     |
| Legacy of the late Frederick Townsend Martin, the income to be applied to the cure and cure of tuberculous cases through the medium of the Vanderbilt Clinic. Established 1919.....   | 9,291.73            | 421.67                  | 9,713.40            |
| <b>MATHEMATICAL PRIZE FUND:</b>   |                     |                         |                     |
| Gift of Mrs. Louis T. Hoyt, to establish this fund in memory of her nephew John Daah Van Buren, Jr., of the Class of 1905. Established 1906.....  | \$496.11            | .....                   | \$496.11            |
| <b>McKIM FELLOWSHIP FUND:</b>   |                     |                         |                     |
| Gift of Charles F. McKim for two traveling fellowships in the Department of Architecture. The fellowships are awarded in odd-numbered years. Established 1889.....  | 20,000.00           | .....                   | 20,000.00           |

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| <b>MEMBER OF CLASS OF '85 FUND:</b>   |           |       |           |
| Gift of Grant Squires, of the Class of 1885, the income to be awarded every five years to defray the expenses of a sociological investigation that promises results of a scientific value. Established 1895.....  | 1,050.00  | ..... | 1,050.00  |
| <b>MITCHELL (WILLIAM) FELLOWSHIP FUND:</b>  |           |       |           |
| Legacy of the late Benjamin D. Silliman to establish, in honor and memory of his friend, William Mitchell, deceased, the William Mitchell Fellowship Fund in Letters or Science. Established 1908.....  | 10,000.00 | ..... | 10,000.00 |
| <b>MOFFAT SCHOLARSHIP FUND:</b>   |           |       |           |
| Legacy from William B. Moffat, M.D., of the Class of 1838, 'for the purpose of one or more scholarships for the education and instruction of one or more indigent students'. Established 1862.....  | 2,000.00  | ..... | 2,000.00  |
| <b>MONTGOMERY (ROBERT H.) PRIZE FUND:</b>   |           |       |           |
| Gift of Robert H. Montgomery to establish this fund; the income to be awarded as a prize to the member of the graduating class of the School of Business who has specialized in accounting and who is deemed by the staff of the School of Business to be most proficient in all courses. Established 1916..... | 1,008.62  | ..... | 1,008.62  |
| <b>MOSENTHAL FELLOWSHIP FUND:</b>   |           |       |           |
| Gift of the friends of the late Joseph Mosenthal, to found a fellowship in Music. Established 1898.....   | 7,500.00  | ..... | 7,500.00  |
| <b>ORDRONAUX (JOHN) FUND:</b>   |           |       |           |
| Legacy from Dr. John Ordronaux, to establish prizes in the Law School, to be presented annually. Established 1909.....  | 3,017.08  | ..... | 3,017.08  |
| <b>PERKINS FELLOWSHIP FUND:</b>   |           |       |           |
| Legacy from Willard B. Perkins, the income to be expended every four years for a traveling fellowship in the Architectural Department. Established 1898.....  | 5,700.00  | ..... | 5,700.00  |
| <b>PETERS (WILLIAM RICHMOND, JR.) FUND FOR ENGINEERING RESEARCH:</b>  |           |       |           |
| Gift of Mr. and Mrs. William R. Peters to establish this fund as a memorial to their son, William Richmond Peters, Jr., of the Class of 1911, Civil Engineering; the income of which is to be applied to the work of research in the Department of Civil Engineering. Established 1912.....                     | 50,000.00 | ..... | 50,000.00 |

|   | At June 30,<br>1919 | Additions,<br>1919-1920 | At June 30,<br>1920 |
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| <b>PHILOLEXIAN CENTENNIAL WASHINGTON PRIZE FUND:</b><br>Gift to the Philolexian Society from J. Ackerman Coles, of the Class of 1864, the accumulated income to be expended every four years for a duplicate of the life-size bronze bust of George Washington, modeled from life at Mount Vernon, by Jean Antoine Houdon. Bust to be cast at the Barbadienne Foundry, Paris, France, and to be given to that member of the Philolexian Society, who, in the opinion of the President of the University, the President of the Society and a third man of their choosing, shall be deemed most worthy, upon his delivery of an original patriotic address. Established 1902..... | \$1,000.00          | .....                   | \$1,000.00          |
| <b>PHILOLEXIAN PRIZE FUND:</b><br>From the Philolexian Society, the income to be paid to the Society for prizes. Established 1903-1904.....   | 1,376.80            | .....                   | 1,376.80            |
| <b>PROUDFIT (ALEXANDER MONCKIEF) FELLOWSHIP FUND:</b><br>Legacy from the late Alexander Monckrief Proudfit, of the Class of 1892, to found a fellowship for the encouragement of study in English Literature, to be known as the 'Alexander Monckrief Proudfit Fellowship in Letters,' to be held only by such persons as, being the sons of native-born American parents, shall have taken the degree of Bachelor of Arts after a three years' residence in Columbia College, and shall, while enjoying such fellowship, or the income thereof, remain unmarried. Established 1899.....  | 15,000.00           | .....                   | 15,000.00           |
| <b>PROUDFIT (MARIA McLEAN) FELLOWSHIP FUND IN MEDICINE:</b><br>Legacy from the late Alexander Monckrief Proudfit, of the Class of 1892, to found a fellowship to be known as the 'Maria McLean Proudfit Fellowship,' to be held only by such persons as, being the sons of native-born American parents, shall, under the direction of the Medical Faculty of Columbia College, pursue advanced studies in Medicine, and shall, while enjoying such fellowship, or the income thereof, remain unmarried. Established 1899..   | 15,000.00           | .....                   | 15,000.00           |
| <b>PSYCHOLOGY FUND:</b><br>Gift of John D. Rockefeller, as an endowment of the head professorship of the Psychological Department of Columbia University. Established 1899.....   | 100,000.00          | .....                   | 100,000.00          |

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| <b>PULITZER (JOSEPH) FUND FOR SCHOOL OF JOURNALISM:</b><br>Gift from Joseph Pulitzer to establish and endow a School of Journalism in Columbia University. Established 1903. Augmented in 1916.  | 1,796,206.07 | .....     | 1,796,206.07 |
| <b>PULITZER SCHOLARSHIP FUND:</b><br>Gift of \$100,000 by Joseph Pulitzer to found thirty scholarships for graduates of City Grammar Schools; one-half the sum to be used on improvements on the new site at 116th Street. Established 1893. Augmented in 1912.  | 301,882.41   | .....     | 301,882.41   |
| <b>REISINGER (HUGO) FUND:</b><br>Bequest of the late Hugo Reisinger. The income to be applied in the discretion of the Trustees to the purchase of books, periodicals and other material for instruction and research in matters relating to the German peoples. Established 1919.   | .....        | 3,551.87  | 3,551.87     |
| <b>ROLKER (CHARLES M., JR.) PRIZE FUND:</b><br>Gift of Mrs. Charles M. Rolker, the annual income to constitute a prize to be publicly awarded on Class Day of each year to that member of the graduating class in Columbia College who, in the judgment of his classmates, has proven himself most worthy of special distinction as an undergraduate student, either because of his industry and success as a scholar, or because of his helpful participation in student activities, or because of pre-eminence in athletic sports. Established 1909.   | 1,000.00     | .....     | 1,000.00     |
| <b>SAUNDERS (LESLIE M.) ENDOWMENT FUND:</b><br>Bequest of the late Alexander Saunders to purchase a perpetual scholarship in Columbia University in the literary or scientific department at the choice of, and for the benefit of the youth nominated therefor by the principal and teachers of the Yonkers High School in Yonkers, or a majority of them, in the first instance, and thereafter to fill a vacancy as it may occur from time to time perpetually; and upon such conditions as such principal and teachers, or a majority of them, may determine with such power and authority to them to fill such scholarship for a term of either one year, two years, three years, or four years, as they may from time to time determine. Established 1917. | 6,000.00     | .....     | 6,000.00     |
| <b>SCHERMERHORN (F. AUGUSTUS) FUND:</b><br>Established by the Trustees for a travelling fellowship in the Department of Architecture in recognition of the liberality of Mr. F. Augustus Schermerhorn of the Class of 1868, to this Department. This fellowship is awarded in even-numbered years. (Name changed from Columbia Fellowship Fund). Principal reduced from \$13,000.00 to \$12,500.00. Est. 1889  | .....        | 12,500.00 | 12,500.00    |



|  | At June 30,<br>1919 | Additions,<br>1919-1920 | At June 30,<br>1920 |
|--|---------------------|-------------------------|---------------------|
| <b>SCHERMERHORN SCHOLARSHIP FUND:</b><br>Bequest of John J. Schermerhorn, of the Class of 1825, 'for the purpose of free scholarships, the nomination to which shall vest in my nearest male relative in each generation during his lifetime'. Established 1877.....   | \$5,000.00          | .....                   | \$5,000.00          |
| <b>SCHIFF FELLOWSHIP FUND:</b><br>Gift of Jacob H. Schiff to found a fellowship in the School of Political Science, to be annually awarded by the Faculty on the nomination of the donor or his eldest living male descendant, etc. Established 1898.....  | 15,000.00           | .....                   | 15,000.00           |
| <b>SCHIFF (JACOB H.) ENDOWMENT FUND:</b><br>Gift of Jacob H. Schiff for the endowment of a Professorship of Social Economy in order to make possible a close affiliation between Columbia University and the New York School of Philanthropy. Established 1905.....  | 100,000.00          | .....                   | 100,000.00          |
| <b>SCHOOL OF DENTISTRY ENDOWMENT FUND:</b><br>Gift of James N. Jarvis for the partial endowment of a Dental School. Original gift \$100,000 to which has been added \$5,000 on account of interest on the above principal to April 15, 1917. Gifts of Anonymous Donors, \$26,000. Established 1916.....  | 131,000.00          | .....                   | 131,000.00          |
| <b>SCHURZ (CARL) FELLOWSHIP FUND:</b><br>From the Carl Schurz Fund Committee in honor of Carl Schurz. Established 1900.....  | 10,000.00           | .....                   | 10,000.00           |
| <b>SCHURZ (CARL) LIBRARY FUND:</b><br>From the Carl Schurz Fund Committee in honor of Carl Schurz, the income to be devoted to the purchase of books, maps, pamphlets and the like, in the field of the German Language and Literature. Established 1900.....  | 10,654.80           | .....                   | 10,654.80           |
| <b>SEIDL FUND:</b><br>The proceeds of a memorial performance held at the Metropolitan Opera House on March 23, 1899, in honor of the late Anton Seidl, the income of the fund to be paid to Mrs. Seidl during her lifetime, and thereafter 'to be awarded at least every second year to the most promising candidate, either man or woman, prepared to devote himself, or herself, to the study of musical composition at Columbia University, or elsewhere in this country, or abroad'..... | 12,000.00           | .....                   | 12,000.00           |

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| <b>SHOEMAKER (WILLIAM BROCK) FUND:</b><br>Gift as a memorial to the late William Brock Shoemaker, of the Class of 1902, in Columbia College, established jointly by his wife, Ella de Peyster Shoemaker, and his father, Henry F. Shoemaker, the income to be used for the benefit of self-supporting students. Established 1908.....   | 10,000.00  | .....     | 10,000.00  |
| <b>SLOANE HOSPITAL FOR WOMEN FUND:</b><br>Gift of William D. Sloane and Emily Thorn Sloane, his wife, as an endowment to the Sloane Hospital for Women, to make all its beds free in perpetuity. Established 1889.....  | 735,000.00 | 21,648.75 | 756,648.75 |
| <b>SMITH PRIZE FUND, SCHOOL OF MEDICINE:</b><br>Gift of relatives, friends and pupils of the late Joseph Mather Smith, M.D., as a memorial of his services as Professor in the College of Physicians and Surgeons from 1826 to 1866. An annual prize of \$100 is to be awarded for the best essay on the subject for the year by an alumnus of the College. Established 1894..... | 3,327.02   | .....     | 3,327.02   |
| <b>SOCIAL AND POLITICAL ETHICS PROFESSORSHIP FUND.</b><br>To endow a chair of Social and Political Ethics. Established 1918.....  | 45,331.75  | .....     | 45,331.75  |
| <b>STEEERS (JAMES R.) FUND:</b><br>Bequest of the late James R. Steers of the Class of 1863 Law, to found a free bed in the Sloane Hospital for Women in the name of his daughter, Fannie Steers Reeve. Established 1919.....   | 10,000.00  | .....     | 10,000.00  |
| <b>STEVENS PRIZE FUND, SCHOOL OF MEDICINE:</b><br>Established by the late Alexander Hodgson Stevens, formerly President of the College of Physicians and Surgeons. The income of the fund is awarded every three years for the best medical essay covering original research as determined by the committee in charge of the prize. Established 1891.....                         | 1,899.88   | .....     | 1,899.88   |
| <b>STOKES (CAROLINE PHELPS) FUND:</b><br>Legacy from the late Caroline Phelps Stokes, the income to be used for lectures, prizes or essays by the students of Columbia, Barnard and Teachers Colleges. Established 1910..   | 20,000.00  | .....     | 20,000.00  |

|  | At June 30,<br>1919 | Additions,<br>1919-1920 | At June 30,<br>1920 |
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| <b>STUART SCHOLARSHIP FUND:</b><br>The gift of Mrs. Cornelia A. Atwill, in memory of her grandsons, Sidney Barculo Stuart, of the Class of 1880, and Eugene Tolman Stuart, of the Class of 1881, to found two scholarships in the College, to be known as 'Stuart Scholarships'. Established 1895.....   | \$6,000.00          | .....                   | \$6,000.00          |
| <b>TOPPAN PRIZE FUND:</b><br>Gift of Mrs. Sarah M. Toppan, to establish this fund in memory of her late husband, Robert Noxon Toppan; the income to be used annually in providing the Robert Noxon Toppan Prize in the School of Law. Established 1904.....  | 4,033.19            | .....                   | 4,033.19            |
| <b>TROWBRIDGE FELLOWSHIP FUND:</b><br>Gift of the Alumni Association of the School of Mines as a Memorial of the late Professor Trowbridge, to establish the 'William Pettit Trowbridge Fellowship in Engineering'. Established 1893.....  | 10,000.00           | .....                   | 10,000.00           |
| <b>TURNER (CHARLES W.) SCHOLARSHIP FUND:</b><br>Gift of Wallis S. Turner, of the Class of 1900, to establish in memory of his father, Charles W. Turner, a scholarship in Columbia College, to aid the education of a needy or deserving student, to the end that through the advantages of such education the recipient may aspire to the highest type of American Citizenship. Established 1920..... | .....               | 6,000.00                | 6,000.00            |
| <b>TYNDALL FELLOWSHIP FUND:</b><br>Gift of the late Professor John Tyndall, of London, the income to be applied to the support of 'American pupils who may have shown decided talent in Physics', etc. Established 1885  | 11,445.50           | .....                   | 11,445.50           |
| <b>VAN AMRINGE (PROFESSOR) MATHEMATICAL PRIZE FUND:</b><br>Gift of George G. DeWitt, of the Class of 1867, to establish this fund, the annual income to constitute the Professor Van Amringe Mathematical Prize in Columbia College. Established 1910.....   | 5,047.76            | .....                   | 5,047.76            |

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| <b>VANDERBILT CLINIC ENDOWMENT FUND:</b>  |  |                 |                |                 |
| Gift of Cornelius, William K., Frederick W., and George W. Vanderbilt, as a perpetual memorial to their father, the late William H. Vanderbilt, as an endowment for the Vanderbilt Clinic. Established 1896 .....   |  | 115,000.00      | .....          | 115,000.00      |
| <b>VAN PRAAG (L. A.) FUND:</b>  |  |                 |                |                 |
| Legacy from L. A. Van Praag to be used by the Trustees, at their discretion for research into the causes and cure of cancer. Established 1915 .....   |  | 5,000.00        | .....          | 5,000.00        |
| <b>WARING FUND:</b>   |  |                 |                |                 |
| The Chamber of Commerce of the State of New York, in the latter part of the year 1898, raised by public subscription the sum of \$100,000 to perpetuate the memory of the late George E. Waring. The income of the fund (to be not less than \$4,000 per year) is to be paid semi-annually to the widow and daughter of Colonel Waring during their lifetime, and thereafter 'the income shall be devoted to the purpose of instruction in municipal affairs in such manner as the President and Board of Trustees of such College may direct.' For Mrs. Waring ..... |  | 100,000.00      | .....          | 100,000.00      |
| For Miss Waring .....   |  |                 |                |                 |
| <b>WHEELER (JOHN VISSCHER) SCHOLARSHIP FUND:</b>  |  |                 |                |                 |
| Legacy from the late Susan E. Johnson Hudson to establish this fund; the income to provide a scholarship in the University. Established 1914 .....  |  | 12,000.00       | .....          | 12,000.00       |
| <b>WHELOCK (GEORGE G.) FUND:</b>  |  |                 |                |                 |
| Gift of Mrs. George G. Wheelock and William H. Wheelock, to establish this fund in memory of the late Dr. George G. Wheelock, the income to be used to meet the needs of the Department of Physiology. Established 1907 .....   |  | 5,027.07        | .....          | 5,027.07        |
| <b>FIRE INSURANCE FUND:</b>   |  |                 |                |                 |
| For the purpose of meeting the cost of repairing damage due to fire in those academic buildings which are not specifically insured .....  |  | 50,000.00       | .....          | 50,000.00       |
|   |  | \$13,213,520.15 | \$2,361,554.92 | \$15,575,075.07 |

## PERMANENT FUNDS

## FOR THE PURCHASE OF LAND AND ERECTION OF BUILDINGS

|  | At June 30,<br>1919 | Additions<br>during the<br>year | At June 30,<br>1920 |
|--|---------------------|---------------------------------|---------------------|
| Adams (Edward D.) Gift (for Deutsches Haus)  | \$ 30,000.00        |                                 | \$ 30,000.00        |
| Additions to the Medical School.....   | 110,570.49          | \$7,259.07                      | 117,829.56          |
| Alumni Fund for the General Purposes of<br>the University.....                         |                     | 198,464.22                      | 198,464.22          |
| Alumni Memorial Hall Gift (University Hall<br>Enlargement).....                        | 100,756.41          |                                 | 100,756.41          |
| Anonymous Gift toward erection of Philosophy<br>Building.....                          | 350,000.00          |                                 | 350,000.00          |
| Anonymous Gift for Hamilton Statue.....  | 1,000.00            |                                 | 1,000.00            |
| Association of the Alumni of Columbia College<br>* (Hamilton Statue).....              | 10,000.00           |                                 | 10,000.00           |
| Avery (Samuel P.) Gift (Avery Architectural<br>Library Building).....                  | 339,250.00          |                                 | 339,250.00          |
| Babcock and Wilcox Gift (Steam Boilers for<br>Power House).....                        | 3,250.00            |                                 | 3,250.00            |
| Clark (Edward Severin) Gift (Fountain of Pan)  | 12,013.50           |                                 | 12,013.50           |
| Class of 1874 Gift (Marble Columns in<br>Library).....                                 | 1,678.00            |                                 | 1,678.00            |
| Class of 1880 Gift (Hamilton Hall, Gates)....  | 2,020.00            |                                 | 2,020.00            |
| Class of 1881 Gift (Flagstaff).....  | 4,600.00            |                                 | 4,600.00            |
| Class of 1881, Arts, Mines and Political Science<br>Gift (Gemot in Hamilton Hall)..... | 1,000.00            |                                 | 1,000.00            |
| Class of 1882 Gift (120th Street Gates).....   | 1,500.00            |                                 | 1,500.00            |
| Class of 1883 Gift (Torcheres, St. Paul's<br>Chapel).....                              | 5,280.00            |                                 | 5,280.00            |
| Class of 1883, Mines, Gift (Setting of Bust of<br>Professor Egleston).....             | 390.00              |                                 | 390.00              |
| Class of 1884, Arts, Gift (Marble Clock,<br>Hamilton Hall).....                        | 1,913.90            |                                 | 1,913.90            |
| Class of 1884, Mines, Gift (Grading South<br>Field).....                               | 5,000.00            |                                 | 5,000.00            |
| Class of 1890, Arts and Mines, Gift (Pylons)   | 8,598.72            |                                 | 8,598.72            |
| Class of 1893 Gift. Chapel Bell.....   | 5,120.84            |                                 | 5,120.84            |
| Class of 1899 Gift (Grading South Field)....   | 5,000.00            |                                 | 5,000.00            |
| Class of 1906 Gift. Class of 1906 Clock.....   | 1,159.64            |                                 | 1,159.64            |
| Class of 1909, College, Gift (Class Shield in<br>Hamilton Hall).....                   | 20.00               |                                 | 20.00               |
| Contributions to Bloomingdale Site.....  | 331,150.00          |                                 | 331,150.00          |
| Contributions to Buildings, Medical School..   | 71,551.05           |                                 | 71,551.05           |
| Contributions to Medical School, Removal and<br>Rebuilding Fund.....                   | 53,000.00           |                                 | 53,000.00           |
| Cragin (E. B.) Gift.....   | 1,400.00            |                                 | 1,400.00            |
| Dodge (Marcellus Hartley) and Mrs. Helen<br>Hartley Jenkins Gift (Hartley Hall).....   | 350,000.00          |                                 | 350,000.00          |
| Dodge (William E.) Gift (Earl Hall).....   | 164,950.82          |                                 | 164,950.82          |
| Duriron Castings Co. Gift (Castings).....  |                     | 75.00                           | 75.00               |
| Fayerweather Legacy (Fayerweather Hall)....  | 330,894.03          |                                 | 330,894.03          |
| Carried Forward.....   | \$2,303,067.40      | \$205,798.29                    | \$2,508,865.69      |

|   | At June 30,<br>1919 | Additions<br>during the<br>year | At June 30,<br>1920 |
|---|---------------------|---------------------------------|---------------------|
| Brought forward.....  | \$2,303,067.40      | \$205,798.29                    | \$2,508,865.69      |
| Furnald (Estate of Francis P. Furnald and<br>Mrs. S. Ella Furnald), Gifts (Furnald Hall)                    | 350,000.00          |                                 | 350,000.00          |
| Hamilton Hall Gift (Anonymous).....   | 507,059.16          |                                 | 507,059.16          |
| Havemeyer Gift (Havemeyer Hall).....  | 414,206.65          |                                 | 414,206.65          |
| Hepburn (A. Barton) Gift (Maison Fran-<br>çaise) .....  | 33,300.00           |                                 | 33,300.00           |
| Kent Hall:  |                     |                                 |                     |
| Anonymous Gift.....\$100,000.00   |                     |                                 |                     |
| Charles Bathgate Beck Gift... 385,672.57  |                     |                                 |                     |
| Francis Lynde Stetson Gift.... 10,000.00  |                     |                                 |                     |
|   | 495,672.57          |                                 | 495,672.57          |
| Lengwitz (E. G.) Gift.....  | 450.00              |                                 | 450.00              |
| Lewisohn (Adolph) Gift (School of Mines<br>Building).....   | 250,000.00          |                                 | 250,000.00          |
| Long Island College Hospital Apparatus Fund   |                     | 3,500.00                        | 3,500.00            |
| Low (Seth) Gift (Library Building).....   | 1,100,639.32        |                                 | 1,100,639.32        |
| Livingston (Edward de Peyster) Gift (Me-<br>morial Window, Livingston Hall).....                            | 1,124.00            |                                 | 1,124.00            |
| Medical and Surgical Equipment Fund.....  |                     | 13,224.59                       | 13,224.59           |
| Memorial Windows Gifts.....   | 14,300.00           |                                 | 14,300.00           |
| Model of Buildings and Grounds Gift.....  | 19,972.70           |                                 | 19,972.70           |
| Morgan (William Fellowes) Gift (Illuminating<br>University Grounds).....                                    | 1,035.00            |                                 | 1,035.00            |
| New Medical School Site Gifts (116th Street<br>and Amsterdam Avenue).....                                   | 420,000.00          |                                 | 420,000.00          |
| Oliver Continuous Filter Co. Gift (Rotary<br>Filter).....   |                     | 1,000.00                        | 1,000.00            |
| Optical Instruments, Gifts.....   |                     | 2,830.00                        | 2,830.00            |
| President's House, Furnishing (Anonymous<br>Gift).....  | 13,533.91           | 876.26                          | 14,410.17           |
| St. Paul's Chapel Gift (Anonymous).....   | 250,000.00          |                                 | 250,000.00          |
| St. Paul's Chapel Furniture Gift (Anonymous)  | 2,846.62            |                                 | 2,846.62            |
| St. Paul's Chapel Organ and Case Gifts.....   | 27,000.00           |                                 | 27,000.00           |
| Schermerhorn Gift (Schermerhorn Hall).....  | 458,133.18          |                                 | 458,133.18          |
| School of Dentistry Building Fund.....  |                     | 18,622.92                       | 18,622.92           |
| School of Journalism Building Gift (Pulitzer)   | 563,501.21          |                                 | 563,501.21          |
| Sloan Torchères Gift (Library Building).....  | 6,000.00            |                                 | 6,000.00            |
| Sloane (Mr. and Mrs. William D.) Gift (Addi-<br>tions and Alterations to Sloane Hospital for<br>Women)..... | 399,263.14          |                                 | 399,263.14          |
| South Court Fountain Gift.....  | 4,932.88            |                                 | 4,932.88            |
| South Field Fund.....   | 54,707.00           |                                 | 54,707.00           |
| South Field Grading Gift (Anonymous).....   | 1,500.00            |                                 | 1,500.00            |
| Stabler (Edward L.) Gift.....   | 1,200.00            |                                 | 1,200.00            |
| Torchères for School of Mines Building Gift   |                     |                                 |                     |
| Class of '83, Mines .....   | 1,000.00            | Decrease                        | 1,000.00            |
| Van Amringe Memorial.....   | 19,261.98           | 60.48                           | 19,201.50           |
| Vanderbilt Gift (Vanderbilt Clinic).....  | 350,000.00          |                                 | 350,000.00          |
| Villard (Henry) Legacy.....   | 50,000.00           |                                 | 50,000.00           |
|   | \$8,113,706.72      | \$245,791.58                    | \$8,359,498.30      |

## GIFTS AND BEQUESTS RECEIVED DURING 1919-1920

## PERMANENT FUNDS:

|   |           |          |           |
|---|-----------|----------|-----------|
| For the Medical and Surgical Equipment Fund:                    |           |          |           |
| Anonymous.....  | \$        | 4,439.00 |           |
| Anonymous through Dr. A. V. S. Lambert.....                     |           | 237.80   |           |
| Harkness (Mrs. Harry S.).....                                   | 10,000.00 | \$       | 14,676.80 |
| Anonymous for Additions to the Medical School.....              |           |          | 2,671.58  |
| Huntington (Archer M.) for Additions to the Medical School..... |           |          | 1,000.00  |
| West (Robert N.) for Fund for Stadium.....                      |           |          | 50.30     |
|   |           |          | <hr/>     |
|   |           |          | 18,398.68 |

## PRINCIPAL OF SPECIAL FUNDS:

|   |              |             |
|---|--------------|-------------|
| Adams (Mrs. Lucy) for the Cragin (Edwin B.) Endowment Fund.....                                 | 2.00         |             |
| Executors of the Estate of Gerard Beekman for the Beekman (Gerard) Fund.....                    | 10,000.00    |             |
| Executors of the Estate of General Horace W. Carpenter for the Sloane Hospital for Women Fund . | 20,710.00    |             |
| Trustees of the Estate of Timothy Matlack Cheesman for the Cheesman (T. M.) Fund.....           | 10,000.00    |             |
| Committee of the Cragin (Edwin B.) Endowment Fund for the Cragin (Edwin B.) Endowment Fund..... | 56,482.05    |             |
| Executors of the Estate of Joseph R. DeLamar for the DeLamar (Joseph R.) Fund.....              | 2,000,000.00 |             |
| Grosvenor (William) for the Grosvenor (Robert) Fund   | 2,500.00     |             |
| Johnston (Albert W.) for the Cragin (Edwin B.) Endowment Fund.....                              | 200.00       |             |
| Trustees of the John S. Kennedy Estate for the Kennedy (John S.) Fund.....                      | 10,571.70    |             |
| King (Mrs. Willard V.) for the Cragin (Edwin B.) Endowment Fund.....                            | 100.00       |             |
| Estate of John Kennedy Lasher, Jr., for the Lasher (John Kennedy, Jr.) Fund.....                | 1,000.00     |             |
| Executors of the last Will and Testament of Sara E. Mower for the Mower (Sara E.) Fund.....     | 53,808.75    |             |
| Trustees of the Estate of S. Whitney Phoenix for the Principal of the Phoenix Legacy.....       | 12,125.00    |             |
| Pyne (Mrs. Maud Howland) for the Cragin (Edwin B.) Endowment Fund.....                          | 100.00       |             |
| Reisinger (Estate of Hugo) for the Art Professorship Fund.....                                  | 21,037.34    |             |
| Reisinger (Estate of Hugo) for the Columbia House Endowment Fund.....                           | 1,051.87     |             |
| Ryerson (Mrs. Annie Laurie) for the Cragin (Edwin B.) Endowment Fund.....                       | 25.00        |             |
|   |              | <hr/>       |
| Carried forward.....  |              | \$18,398.68 |

|   |            |              |
|---|------------|--------------|
| <i>Brought forward</i> .....  |            | \$18,398.68  |
| Sloane Hospital for Women, for the Cragin (Edwin B.)<br>Endowment Fund.....             | \$3,500 00 |              |
| Sutliff (Miss Phoebe T.) for the Edward Sutliff Brail-<br>nard Memorial Prize Fund..... | 1,200.00   |              |
| Turner (Wallis S.) for the Turner (Charles W.) Scholar-<br>ship Fund.....               | 6,000.00   | 2,210,413.71 |

## DESIGNATED GIFTS:

## (a) For the General Purposes of the University:

|   |           |           |
|---|-----------|-----------|
| Alumni Fund Committee to be applied toward the<br>deficiency in the cost of maintaining the work<br>of the University for the year ending June 30, 1918 | 69,804.22 |           |
| Class of 1909 to be added to the Alumni Fund for<br>deficit for the year ending June 30, 1918.....  | 1,000.00  |           |
| Executors of the Estate of Isaac N. Seligman.....   | 5,464.17  | 76,268.39 |

## (b) For Special Purposes:

|   |           |                |
|---|-----------|----------------|
| Anonymous Gift for the School of Business.....  | 5,000.00  |                |
| Anonymous Gift for the Law School Contingent<br>Fund.....   | 325.00    |                |
| Anonymous Gift for Columbia House Maintenance .   | 100.00    |                |
| Anonymous Gift to be added to the principal of the<br>Students' Loan Fund.....                                    | 134.29    |                |
| Bausch & Lomb Optical Co. (Optical Instruments) .   |           |                |
| Bleyer (Dr. Frederick S.) for the Bleyer (Amanda)<br>Scholarship.....   | 250.00    |                |
| Borden's Condensed Milk Co. for Research in Food<br>Chemistry and Nutrition.....                                  | 16,000.00 |                |
| Borzykowski (Benno) for the Maintenance of the<br>Borzykowski Research Fellowship in Chemical<br>Engineering..... | 1,200.00  |                |
| Bush (W. T.) for the Library Emergency Fund....   | 120 00    |                |
| Chaloner (John Armstrong) for the Income of the<br>Chanler Prize Fund.....  | 125.00    |                |
| Chaloner (John Armstrong) for the Chanler His-<br>torical Prizes for 1920-1921.....                               | 600.00    |                |
| Chamberlain (Joseph P.) for the Legislative Draft-<br>ing Research Fund.....                                      | 2,500.00  |                |
| Chandler (Dr. C. F.) for the Chandler Maintenance<br>Fund.....  | 22.05     |                |
| Class of 1887 School of Mines for the Class of '87<br>Mines Loan Fund.....  | 25.00     |                |
| Coolidge (Mrs. Elizabeth S.) for Research Fellow-<br>ship in Medicine.....  | 2,400.00  |                |
| Coudert (Frederick R.) for Philosophy Salaries .....  | 250.00    |                |
| <i>Carried forward</i> .....  |           | \$2,305,080.78 |



|  |                |
|--|----------------|
| <i>Brought forward</i> .....   | \$2,305,080.78 |
| Dills (Duane R.) for the Law School Alumni Fund<br>for the Library.....  | \$ 10.00       |
| DuPont (E. I.) de Nemours Co. for Special Research<br>Scholarships in Chemistry.....                                     | 750.00         |
| Duriron Castings Co. (Castings).....   |                |
| East River Homes for Tuberculosis work in the<br>Vanderbilt Clinic.....  | 9,000.00       |
| General Bakelite Co. for Research Fellowship in<br>the Department of Chemical Engineering for the<br>year 1919-1920..... | 1,000.00       |
| General Optical Co. (Optical Instruments).....   |                |
| Gillies (Edwin J.) for the American School in Jeru-<br>salem .....   | 50.00          |
| Globe Optical Co. (Optical Instruments).....   |                |
| Grace (Joseph P.) for Philosophy Salaries.....   | 250.00         |
| Griffian (Mrs. Isoline L.) for the Italian Library<br>Fund.....  | 5.00           |
| Griscom (Rev. Acton) for Books and Serials for the<br>Library.....   | 25.00          |
| Hammerling (Mr. Louis N.) for Slavonic Languages<br>Salaries.....  | 500.00         |
| Jackson (Prof. A. V. W.) for Indo-Iranian Languages<br>Salaries.....   | 500.00         |
| Jenkins (Mrs. Helen Hartley) for the Marcellus<br>Hartley Research Laboratory.....                                       | 2,000.00       |
| Treasurer of the Phil Kearney Club for the "Phil<br>Kearney Loan Fund".....  | 1,022.20       |
| Trustees of the John S. Kennedy Estate for the In-<br>come of the Kennedy (John S.) Fund.....                            | 518.49         |
| Ladd (Mrs. W. G.) for the Photographic Fund .....  | 2,000.00       |
| Lee (Professor & Mrs. F. S.) for Physiology Salaries   | 1,336.00       |
| Loeb (James) for the Loeb Library Fund.....  | 175.00         |
| Trustee of the Estate of Seth Low for the Committee<br>of Fifty Fund.....  | 86.01          |
| Low (Mrs. William G.) for Purchase of Books on<br>Maritime and International Law.....                                    | 250.00         |
| Mackay (Clarence H.) for Philosophy Salaries.....  | 250.00         |
| Mackay (Clarence H.) for the Surgical Research<br>Fund.....  | 12,000.00      |
| Macy (Mr. V. Everit) for the Photographic Fund...  | 1,000.00       |
| McClymonds (Mrs. A. M.) for the L. K. McCly-<br>monds Scholarship.....   | 1,300.00       |
| Montgomery (Robert H.) for Purchase of Books on<br>Accounting.....   | 500.00         |
| Montgomery (Robert H.) for Special Purposes in the<br>School of Business.....  | 1,000.00       |
| <i>Carried forward</i> .....   | \$2,305,080.78 |

|  |           |                       |
|--|-----------|-----------------------|
| <i>Brought forward</i> .....   |           | \$2,305,080.78        |
| National Polish Department of America for Slavonic Languages Salaries.....   | \$ 500.00 |                       |
| New York State Society of Certified Public Accountants for Prize in Accounting.....  | 40.00     |                       |
| Nies (James B.) for the American School in Jerusalem   | 50.00     |                       |
| Oliver Continuous Filter Co. (Rotary Filter).....  |           |                       |
| Pan-Hellenic Union for Law School Scholarship.....   | 100.00    |                       |
| Pupin (Michael I.) for Slavonic Languages Salaries .   | 150.00    |                       |
| Roosevelt Memorial Exhibition Committee for the Columbia House Maintenance Fund.....   | 1,006.32  |                       |
| Sargent (Homer E.) for Research on the Indians in British Columbia.....  | 1,000.00  |                       |
| Standard Optical Co. (Optical Instruments).....  |           |                       |
| Starr (Dr. M. Allen) for Neurology Departmental Expenses.....  | 1,306.42  |                       |
| Streeter (Mrs. S. M.) for the School of Dentistry ...  | 1,000.00  |                       |
| Students in Comparative Literature in Commemoration of the sixty-eighth Birthday of Professor Brander Matthews for the benefit of the Dramatic Museum..... | 105.00    |                       |
| Sutliff (Phoebe T.) for the Income of the Edward Sutliff Brainard Memorial Prize Fund.....   | 25.00     |                       |
| Troy (Richard H.) for the Law School.....  | 2.00      |                       |
| Treasurer of the United States for the study of the Etiology of Chancroids.....  | 4,200.00  |                       |
| Walker (Arthur L.) for Mining and Metallurgy Salaries.....   | 700.00    |                       |
| Wawapex Society for the John D. Jones Scholarship  | 200.00    |                       |
| Young Men's Christian Association of Georgia for a Scholarship in Columbia College.....  | 50.00     | 75,013.78             |
|  |           | <u>\$2,380,094.56</u> |

FREDERICK A. GOETZE

*Treasurer*

NEW YORK, June 30, 1920



**FINANCIAL REPORT**  
**OF**  
**BARNARD COLLEGE**  
**1919-1920**



# BARNARD COLLEGE

441

## BARNARD COLLEGE—INCOME AND EXPENSE ACCOUNT—1919-1920

| RECEIPTS                                |                    | DISBURSEMENTS                         |                       |
|---|--------------------|---------------------------------------|-----------------------|
| Schedule I                              |                    | General Purposes:                     |                       |
| Balance, July 1, 1919:                  |                    | Educational Administration . . .      | \$224,893.75          |
| New York Trust Company . . .            | \$13,203.24        | Buildings and Grounds . . . . .       | 139,746.69            |
| Corn Exchange Bank . . . . .            | 5,000.00           | Ella Weed Library . . . . .           | 5,238.46              |
|   | <u>\$18,203.24</u> | Business Administration . . . . .     | 6,362.49              |
| Dividends . . . . .                     | 151,025.71         | Brooks Hall . . . . .                 | 41,422.18             |
| Miscellaneous Sources . . . . .         | 151,944.00         |                                       | <u>\$417,563.57</u>   |
| Fees . . . . .                          | 186,289.52         | Annuities . . . . .                   | 13,000.00             |
| Gifts for Designated Purposes . . . . . | 2,177.50           | Investments . . . . .                 | 645,327.97            |
|   |                    | Miscellaneous . . . . .               | 227,649.23            |
| Schedule II                             |                    | Balance, June 30, 1920:               |                       |
| Gifts for Permanent Funds . . . . .     | \$934,726.70       | New York Trust Company . . . . .      | \$73,675.76           |
|   |                    | United States Trust Company . . . . . | 59,051.35             |
|   |                    | Corn Exchange Bank . . . . .          | 6,998.79              |
|   |                    |                                       | <u>139,725.90</u>     |
|   |                    |                                       | <u>\$1,444,366.67</u> |



# BARNARD COLLEGE—INCOME AND EXPENSE ACCOUNT—1919-1920

## BARNARD COLLEGE

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| Schedule I                              |                    | Schedule II                           |                       |
|---|--------------------|---------------------------------------|-----------------------|
| RECEIPTS                                |                    | DISBURSEMENTS                         |                       |
| General Purposes:                       |                    | General Purposes:                     |                       |
| Balance, July 1, 1919:                  |                    | Educational Administration . . .      | \$224,893.75          |
| New York Trust Company . . .            | \$13,203.24        | Buildings and Grounds . . . . .       | 139,746.69            |
| Corn Exchange Bank . . . . .            | 5,000.00           | Ella Weed Library . . . . .           | 5,238.46              |
|   | <u>\$18,203.24</u> | Business Administration . . . . .     | 6,262.49              |
| Dividends . . . . .                     | 151,025.71         | Brooks Hall . . . . .                 | 41,422.18             |
| Miscellaneous Sources . . . . .         | 151,944.00         |                                       | <u>\$417,563.57</u>   |
| Fees . . . . .                          | 186,289.52         | Annuities . . . . .                   | 13,900.00             |
| Gifts for Designated Purposes . . . . . | 2,177.50           | Investments . . . . .                 | 645,527.97            |
|   |                    | Miscellaneous . . . . .               | 227,649.23            |
|   |                    | Balance, June 30, 1920:               |                       |
|   |                    | New York Trust Company . . . . .      | \$73,675.76           |
|   |                    | United States Trust Company . . . . . | 59,051.35             |
|   |                    | Corn Exchange Bank . . . . .          | 6,998.79              |
|   |                    |                                       | <u>139,725.90</u>     |
|   |                    |                                       | <u>\$1,444,366.67</u> |
|   |                    |                                       | <u>\$1,444,366.67</u> |



## BARNARD COLLEGE—BALANCE SHEET—JUNE 30, 1920

| ASSETS  |  | FUNDS AND LIABILITIES  |  |
|---|--|--|--|
| <p>Lands, Buildings, and Equipment . . . . . \$2,620,529.95</p> <p>Investment of Special Funds . . . . . 3,477,239.73</p>   |  | <p>Principal of Permanent Funds . . . . . \$2,542,686.46</p> <p>Principal of Special Funds . . . . . 3,643,574.63</p>  |  |
| <p>Cash at Banks:</p> <p>    Corn Exchange Bank . . . . . \$6,998.79</p> <p>    New York Trust Company . . . . . 73,675.76</p> <p>    United States Trust Company . . . . . 59,031.35</p> <p>139,725.90</p> |  | <p>Unexpended Moneys for Designated Purposes . . . . . 8,405.11</p> <p>Income from Fiske Fund in excess of Expenditure for Care,<br/>Maintenance and Improvement of Fiske Hall . . . . . 43,781.12</p> |  |
| <p>Prepaid Insurance . . . . . 2,176.75</p> <p>Accounts Receivable; Sundry Students, etc. . . . . 345.05</p> <p>Accrued Income on Securities Purchased . . . . . 2,579.14</p>                               |  | <p>Accounts Payable:</p> <p>Students' Deposits . . . . . 635.00</p> <p>Summer Session . . . . . 1,998.79</p> <p>Surplus . . . . . 1,515.41</p>   |  |
| <u>\$6,242,596.52</u>   |  | <u>\$6,242,596.52</u>  |  |

# BARNARD COLLEGE

## PRINCIPAL OF SPECIAL FUNDS JUNE 30, 1920

### *A. For General Endowment*

|   |             |
|---|-------------|
| <b>BURGESS (ANNIE P.) FUND:</b>   |             |
| Legacy from the estate of Mrs. Annie P. Burgess. Established 1913   | \$63,308.33 |
| <b>CARPENTER (HENRIETTA) FUND:</b>  |             |
| Gift of General H. W. Carpentier, in memory of his mother toward the Endowment Fund of Barnard College. The income of the fund is to be used for the payment of three annuities. Established 1898, 1900, 1911, 1913, 1914, and 1915 . . . . . | 498,041.66  |
| <b>CARPENTIER (H. W.) ENDOWMENT FUND:</b>   |             |
| Legacy from the estate of General H. W. Carpentier. Established 1919  | \$41,240.85 |
| <b>CHOATE (MRS. JOSEPH H.) ENDOWMENT FUND:</b>  |             |
| Gift of Mrs. Joseph H. Choate for endowment. Established 1918 . .   | 35,000.00   |
| <b>ENDOWMENT FUND:</b> . . . . .  | 392,649.49  |
| <b>FISKE FOUNDERSHIP FUND:</b>  |             |
| Gift of the late Mrs. Martha T. Fiske-Collord, in memory of Mr. Josiah M. Fiske. The income of the fund to be applied to the running expenses of the College . . . . .  | 5,188.08    |
| <b>FISKE HALL FUND:</b>   |             |
| Legacy from the late Mrs. Martha T. Fiske-Collord, the income of which is to be applied to the care, maintenance, and improvement of Fiske Hall. Established 1910 . . . . .   | 122,000.00  |
| <b>GEER FUND:</b>   |             |
| A memorial to Helen Hartley Jenkins Geer made by the Class of 1915. Established 1920 . . . . .  | 1,962.21    |
| <b>GIBBES FUND:</b>   |             |
| a. Legacy of the late Emily O. Gibbes. The income of the fund is to be used for the general needs of the College. Established 1908 .  | 266,986.00  |
| b. Legacy of the late Emily O. Gibbes. The income of the fund is paid for life to Edwina M. Post. Established 1908 . . . . .  | 100,000.00  |
| <b>HARRIMAN FUND:</b>   |             |
| Gift of Mrs. E. H. Harriman to establish a fund, the income therefrom to be used for physical education and development, or to meet the deficit in running expenses. Established 1914 . . . . .   | 75,000.00   |
| <b>HERRMAN FOUNDERSHIP FUND:</b>  |             |
| Gift of the late Mrs. Esther Herrman. The income of the fund is to be applied to the general needs of the College . . . . .   | 5,000.00    |
| <b>KENNEDY (JOHN STEWART) FUND:</b>   |             |
| Legacy from the estate of the late John Stewart Kennedy. Established 1910 . . . . .   | 49,918.90   |
| <b>MUNN (ANNE ELDER) MEMORIAL FUND:</b>   |             |
| Gift of Mrs. I. Sheldon Tilney in memory of her mother. The income is to be used at the discretion of the Trustees. Established 1918 .  | 7,500.00    |

**ROCKEFELLER (JOHN D.) ENDOWMENT FUND:**

Gift of Mr. John D. Rockefeller toward the permanent endowment of  
Barnard College. Established 1901 . . . . . 250,450.00

**SAGE FUND:**

Legacy from the Estate of Margaret Olivia Sage. Established 1920 . . . . . 270,766.28

**SANDERS (ELEANOR BUTLER) FOUNDERSHIP FUND:**

Legacy from the estate of the late Mrs. Henry M. Sanders. The income  
of the fund is used for the current needs of the College.  
Established 1908 . . . . . 5,000.00

**SMITH (ANNA E.) FUND:**

Legacy from the estate of Anna E. Smith. Established 1916 . . . . . 10,048.00

**TILLOTSON (EMMA A.) ENDOWMENT FUND:**

Legacy from the estate of Emma A. Tillotson. Established 1910 . . . . . 5,000.00

**WOERISHOFFER FUND:**

Gift of Mrs. Charles Woerishoffer for endowment. Established 1913,  
1917 . . . . . 10,000.00

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• \$3,015,059.80

*B. For Designated Purposes***ALDRICH (MARY GERTRUDE EDSON) SCHOLARSHIP FUND:**

Gift of Mrs. James Herman Aldrich. Established 1916 . . . . . \$1,004.80

**BARNARD (ANNA E.) SCHOLARSHIP FUND:**

Gift of Miss Emily H. Bourne in honor of the late Mrs. John G.  
Barnard, for a scholarship to be awarded annually at the discretion  
of the founder in conference with the representatives of the  
College. Established 1899 . . . . . 3,078.72

**BARNARD SCHOOL SCHOLARSHIP FUND:**

Gift of the Alumnae of the Barnard School for girls. Established 1916 . . . . . 4,019.20

**BOGERT (ANNA SHIPPEN YOUNG) SCHOLARSHIP FUND:**

Legacy from the estate of Mrs. Annie P. Burgess. The annual income  
is to defray the tuition and expenses of a worthy pupil who is  
unable to pay her own expenses. Established 1913 . . . . . 5,000.00

**BOGERT (CHARLES E.) SCHOLARSHIP FUND:**

Legacy from the estate of Mrs. Annie P. Burgess. The annual income  
is to defray the tuition and expenses of a worthy pupil who is  
unable to pay her own expenses. Established 1913 . . . . . 5,000.00

**BREARLEY SCHOOL SCHOLARSHIP FUND:**

Gift of pupils of the Brearley School for a scholarship to be awarded  
annually to a student who deserves assistance. Established 1899 . . . . . 3,000.00

**BRENNER (MARTHA ORNSTEIN) SCHOLARSHIP FUND:**

Gift in memory of Martha Ornstein Brenner, Class of 1899, by her  
friends. Established 1915 . . . . . 4,000.00

**BROOKS (ARTHUR) MEMORIAL FUND:**

Gift of Miss Olivia E. Phelps Stokes as a memorial of the late Reverend  
Arthur Brooks, D.D., Rector of the Church of the Incarnation,  
and Chairman of the Board of Trustees of Barnard College during  
the first six years of the existence of the College. The income of  
the fund is to aid needy and deserving students of the College.  
Established 1897 . . . . . 5,976.25

**CARPENTIER SCHOLARSHIP FUND:**

Legacy from the estate of General H. W. Carpentier for scholarships.

Established 1919 . . . . . 200,000.00

**CHISHOLM (ELIZA TAYLOR) MEMORIAL SCHOLARSHIP FUND:**

Gift of the Alumnae Association of Miss Chisholm's School for a scholarship, to be awarded annually by the Committee on Scholarships of the Faculty to a student in need of assistance, said Alumnae Association reserving the privilege of precedence for such candidates as they may recommend. Established 1901 . . . . .

3,000.00

**CLARKSON (JENNIE B.) SCHOLARSHIP FUND:**

Gift of the late Mrs. W. R. Clarkson for a scholarship to be awarded annually to a student who deserves assistance. Established 1898

3,022.50

**COE (MRS. HENRY CLARKE) SCHOLARSHIP FUND:**

Gift of the National Society of New England Women for a scholarship to be awarded on the nomination of the Chairman for the Scholarship Committee of the above society, to a student from New England or of New England parentage. Established 1904 . . .

3,600.00

**ENGLISH SCHOLARSHIP FUND:**

An anonymous gift. Established 1920 . . . . .

5,000.00

**FISKE SCHOLARSHIP FUND:**

Gift of the late Mrs. Martha T. Fiske-Collord, the income of which is to be placed at the disposal of the Dean of Barnard College. Established 1895 . . . . .

5,719.94

**FISKE (MARTHA T.) SCHOLARSHIP FUND:**

Gift of Miss Anna E. Smith for a non-resident scholarship in memory of Mrs. Martha T. Fiske-Collord. Established 1911 . . . . .

5,000.00

**GALWAY FUND:**

Gift of an anonymous donor for a scholarship. Established 1912 . .

2,559.08

**GOLDFRANK (IRMA ALEXANDER) FUND:**

Gift of friends of Mrs. Irma Alexander Goldfrank, the income of which is to help deserving students in time of special need. Established 1919 . . . . .

2,105.55

**GRAHAM SCHOOL SCHOLARSHIP FUND:**

Gift of the Alumnae Association of the Graham School. The income of the fund is to be applied to the tuition of a student. Established 1907 . . . . .

3,000.00

**HEALTH FUND:**

Gift from an anonymous donor to promote the physical health of the students and officers of the College. Established 1917 . . . . .

5,000.00

**HERRMAN BOTANICAL PRIZE FUND:**

Gift of the late Mrs. Esther Herrman, for a prize to be awarded annually to the most proficient in Botany . . . . .

1,000.00

**HERTZOG (EMMA) SCHOLARSHIP FUND:**

Gift to establish a scholarship in memory of Miss Emma Hertzog, who for a long period of years was prominently identified with the intellectual life of Yonkers. The income is awarded annually to a graduate of the Yonkers High School. Established 1904 . . .

3,000.00

**KAUFMANN (JESSIE) SCHOLARSHIP FUND:**

Gift of Mr. Julius Kaufmann to establish a scholarship in memory of his daughter, Jessie Kaufmann. The annual income of the fund is awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. Established 1902 . . . . . 4,000.00

**KINNICUTT (ELENORA) SCHOLARSHIP FUND:**

Gift of friends of the late Mrs. Francis P. Kinnicutt, a trustee of the College, to establish a scholarship. The income is awarded to a student who needs assistance. Established 1911 . . . . . 5,000.00

**KOHN MATHEMATICAL PRIZE FUND:**

Gift of Mrs. S. H. Kohn for a prize to be awarded annually to a senior for excellence in Mathematics . . . . . 1,148.94

**MCLEAN (MRS. DONALD) SCHOLARSHIP FUND:**

Gift of the New York Chapter of the Daughters of the American Revolution. The income of the fund is awarded in conference with a representative of the Chapter to a deserving student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course. Established 1906 . . . . . 3,000.00

**MOIR (WILLIAM) SCHOLARSHIP FUND:**

Legacy from the estate of Mrs. Emily H. Moir in memory of her husband. Established 1912 . . . . . 10,000.00

**MURRAY (CAROLINE CHURCH) FUND:**

Gift of Mr. George Welwood Murray in memory of his wife, Caroline Church Murray. The income of this fund is to be used in aid of needy and deserving students. Established 1918 . . . . . 5,000.00

**OGILVIE (CLINTON) MEMORIAL FUND:**

Gift of Mrs. Clinton Ogilvie. The income of this fund is to be applied to the salaries of assistants in the Department of Geology. Established 1914 . . . . . 10,000.00

**POPE (MARY BARSTOW) SCHOLARSHIP FUND:**

Gift in memory of Miss Mary Barstow Pope, sometime teacher in Miss Chapin's School, by her friends, her fellow teachers, and her pupils. Established 1913 . . . . . 4,318.15

**PULITZER (LUCILLE) SCHOLARSHIP FUND:**

Gift of the late Mr. Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. The income of the fund is to be used for scholarships. Established 1899 and 1903, 1915 and 1916 . . . . . 176,666.28

**REED (CAROLINE GALLUP) PRIZE FUND:**

Gift of Mrs. William Barclay Parsons. Established 1916 . . . . . 1,004.80

**SCHOLARSHIP FUND:**

Gift of friends of Barnard College. The income of the fund is applied toward helping deserving students through college. Established 1901 . . . . . 9,680.00

**SHAW FUND:**

A memorial gift to Anna Howard Shaw. Established 1920 . . . . . 2,164.00

**SMITH (EMILY JAMES) SCHOLARSHIP FUND:**

Gift of Miss Emily H. Bourne in honor of Miss Smith, Dean of Barnard College. The income of the fund is awarded in conference with the founder. Established 1899 . . . . . 3,068.92

**SMITH (GEORGE W.) SCHOLARSHIP FUND:**

Gift of the late Mrs. Martha T. Fiske-Collord, in memory of Mr. George W. Smith, a Trustee of Barnard College. The income of the fund is placed at the disposal of the Dean of Barnard College. Established 1906 . . . . . 5,435.19

**SPERANZA (CARLO L.) PRIZE FUND:**

Gift from an anonymous donor for the founding of a prize in memory of Professor Carlo Leonardo Speranza, to be awarded annually to a student in Barnard College for excellence in Italian. Established 1911 . . . . . 1,000.00

**TALCOTT (JAMES) FUND:**

Gift of Mr. James Talcott, to found a professorship for Religious Instruction. Established 1915 . . . . . 100,000.00

**TATLOCK PRIZE FUND:**

Gift in memory of Jean Willard Tatlock, Class of 1895, by her friends to found a prize to be awarded annually to the undergraduate student most proficient in Latin. Established 1917 . . . . . 1,250.00

**TILLOTSON (EMMA A.) SCHOLARSHIP FUND:**

Legacy from the estate of Emma A. Tillotson. Established 1910 . . . . . 5,000.00

**VELTIN SCHOOL SCHOLARSHIP FUND:**

Gift of the Alumnae of Mlle. Veltin's School. Established 1905 . . . . . 3,000.00

**VON WAHL PRIZE FUND:**

Gift from the friends of Constance Von Wahl, 1912, to found a prize to be awarded annually to a senior who has rendered the highest type of service to the College. Established 1915 . . . . . 1,300.00

**WEED (ELLA) SCHOLARSHIP FUND:**

Gift of the pupils of Miss Anne Browne's School, in memory of Miss Ella Weed, who was Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence. Established 1897 . . . . . 3,392.51

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\$3,643,574.63



**FINANCIAL REPORT**  
**OF**  
**TEACHERS COLLEGE**  
**1919-1920**





Having audited the Accounts of Teachers College for the year ended June 30, 1920, we hereby certify that the following statement of Funds and Revenue Account with accompanying Schedules, show the true financial condition of the Corporation at June 30, 1920.

**LESLIE, BANKS AND COMPANY,**  
*Auditors*

| ASSETS   | Total          | LIABILITIES, FUNDS, AND SURPLUS                                    | Total          |
|--|----------------|--|----------------|
| Cash at Banks and on Hand . . . . .  | \$164,950.78   | Accounts Payable:  |                |
| Accounts Receivable:   |                | Sundry Creditors . . . . .   | \$87,938.35    |
| Students Fee Receivable, less Reserve . .                                    | \$6,634.77     | Unexpended Income from Funds for Special Purposes . .              | 30,664.77      |
| Sundry Debtors . . . . .   | 101,018.76     | Unexpended Gifts for Designated Purposes . . . . .                 | 14,564.86      |
|  |                | Mortgages on College Dormitories . . . . .                         | 1,216,500.00   |
| Supplies, Equipment, and Prepaid Expenditure (less Prepaid Income) . . . . . | 107,653.53     |  |                |
| Loans to Students . . . . .  | 31,766.60      | Funds (Principal):   |                |
| Securities Owned (Book Value) . . . . .                                      | 8,247.07       | Permanent—For Purchase of Land and Erection of Buildings . . . . . | 4,080,088.02   |
|  | 2,039,893.51   | Special Funds . . . . .  | 901,399.75     |
| Real Estate:   |                | General Funds . . . . .  | 1,802,656.68   |
| Academic Properties: Land, Buildings and Equipment . . . . .                 | 3,708,162.11   | Students' Loans . . . . .  | 24,064.54      |
| Rental Properties . . . . .  | 2,148,023.69   | Reserve for Repairs and Renewals . . . . .                         | 3,000.00       |
|  | 5,857,085.80   | Surplus Income from General Funds* . . . . .                       | 46,592.32      |
|  |                |  |                |
|  | \$8,207,597.20 |  | \$8,207,597.20 |

\*The annual mortgage reserve on college dormitories is chargeable against this item.

## STATEMENT OF FUNDS AT JUNE 30, 1920

## FUNDS, ETC., AT JUNE 30, 1920:

*Principal of Endowed Funds:*

|                                |                |
|--------------------------------|----------------|
| For General Purposes . . . . . | \$1,802,656.68 |
| For Special Purposes . . . . . | 901,390.75*    |
|                                | <hr/>          |
|                                | \$2,703,086.43 |

*Principal of Other Funds:*

|   |                |
|---|----------------|
| For Improvements and Additions to College Property—Unexpended . . . . . | \$371,025.91   |
| For Student Loan Funds on Hand . . . . .                                | 15,817.47      |
| For Gifts for Designated Purposes—Unexpended . . . . .                  | 14,562.86      |
|   | <hr/>          |
| Surplus Income from Funds for Special Purposes . . . . .                | 402,306.24     |
| Surplus Income from Funds for General Purposes . . . . .                | 30,664.77†     |
| Reserve for Repairs and Renewals . . . . .                              | 46,592.32      |
|   | <hr/>          |
|   | 3,200.00       |
|   | <hr/>          |
|   | \$3,186,749.76 |

## TOTAL FUNDS, ETC.

\$3,186,749.76

## ASSETS (Net):

|   |                |
|---|----------------|
| Cash . . . . .  | \$162,050.78   |
| Accounts Receivable . . . . .   | 107,653.53     |
| Supplies and Prepaid Expenditure (less prepaid income), Equipment . . . . .         | 31,766.60      |
| Investment of Endowed Funds—Productive (less mortgages of \$1,216,500.00) . . . . . | 2,972,317.20   |
|   | <hr/>          |
|   | \$3,274,688.11 |

*Less:*

|                            |                |
|----------------------------|----------------|
| Accounts Payable . . . . . | 87,938.35      |
|                            | <hr/>          |
| TOTAL NET ASSETS . . . . . | \$3,186,749.76 |

†Includes \$3,374.21 surplus income of Lincoln School.

\*Includes Whittier Hall Mortgage reserve of \$240,804.97.

## REVENUE ACCOUNT FOR YEAR ENDED JUNE 30, 1920

## INCOME

|   | From Funds for<br>General Purposes | From Funds for<br>Special Purposes | Gifts for<br>Designated Purposes | Total          |
|---|------------------------------------|------------------------------------|----------------------------------|----------------|
| COLLEGE EARNINGS, ETC. . . . .                        | \$839,112.15                       |                                    |                                  | \$839,112.15   |
| INCOME FROM INVESTMENTS, ETC.:<br>From General Funds: |                                    |                                    |                                  |                |
| (a) Stocks and Bonds . . . . .                        | 44,575.15                          |                                    |                                  | 44,575.15      |
| (b) Whittier Hall . . . . .                           | 25,000.00                          |                                    |                                  | 25,000.00      |
| (c) Bancroft Hall . . . . .                           | 9,087.50                           |                                    |                                  | 9,087.50       |
| (d) Seth Low Hall . . . . .                           | 8,300.00                           |                                    |                                  | 8,300.00       |
| (e) Interest . . . . .                                | 6,815.72                           |                                    |                                  | 6,815.72       |
| From Scholarships, etc., Funds . . . . .              |                                    | \$24,426.39                        | \$28,751.46                      | 53,177.85      |
| From Library Funds . . . . .                          |                                    | 5,007.62                           |                                  | 5,007.62       |
| SPECIAL FUND FOR PUBLICATION . . . . .                |                                    | 40,239.42                          |                                  | 40,239.42      |
|   | \$932,890.52                       | \$69,673.43                        | \$28,751.46                      | \$1,031,315.41 |

## EXPENDITURE

|  | From Funds for<br>General Purposes | From Funds for<br>Special Purposes | Gifts for<br>Designated Purposes | Total          |
|--|------------------------------------|------------------------------------|----------------------------------|----------------|
| EDUCATIONAL ADMINISTRATION AND INSTRUCTION . . . . . | \$759,078.98                       | \$24,201.28                        | \$2,155.24                       | \$785,435.50   |
| MAINTENANCE OF BUILDINGS AND GROUNDS . . . . .       | 129,024.39                         |                                    |                                  | 129,024.39     |
| BUSINESS ADMINISTRATION . . . . .                    | 87,000.12                          |                                    |                                  | 87,000.12      |
| LIBRARY . . . . .                                    | 17,197.33                          | 4,871.20                           |                                  | 22,068.53      |
| SPECIAL FUND FOR PUBLICATION . . . . .               |                                    | 39,950.17                          |                                  | 39,950.17      |
| EDUCATIONAL SERVICE BUREAU . . . . .                 |                                    |                                    |                                  | 2,212.41       |
| SPECIAL PURPOSES . . . . .                           | 2,212.41                           |                                    |                                  | 2,212.41       |
| Total Expenditures . . . . .                         | \$907,222.23                       | \$69,022.65                        | 18,560.01                        | \$1,056,960.13 |
| SURPLUS OF INCOME FOR YEAR . . . . .                 | * 34,331.71                        | 650.78                             | \$20,715.25                      | * 25,644.72    |
|  | \$932,890.52                       | \$69,673.43                        | \$28,751.46                      | \$1,031,315.41 |

\*Deficit

## PRINCIPAL AND INVESTMENT OF ENDOWED FUNDS

## AS PER BALANCE SHEET

|  | At<br>July 1, 1919 | Additions or<br>Deductions<br>during Year | At<br>June 30, 1920 |
|--|--------------------|---|---------------------|
| <b>I. PRINCIPAL:</b>                                       |                    |   |                     |
| (a) For General Purposes:                                  |                    |   |                     |
| Stocks and Bonds . . . . .                                 | \$1,312,918.03     | \$25,279.96                               | \$870,232.99        |
| Whittier Hall (Equity) . . . . .                           | 464,458.69         |   | 464,458.69          |
| Bancroft Hall (Equity) . . . . .                           |                    |   | 290,912.50          |
| Seth Low Hall (Equity) . . . . .                           |                    |   | 177,052.50          |
| Total for General Purposes . . . . .                       | \$1,777,376.72     | \$25,279.96                               | \$1,802,656.68      |
| (b) For Special Purposes:                                  |                    |   |                     |
| Army and Navy Scholarship Fund . . . . .                   | 3,155.21           | .52                                       | 3,155.73            |
| Bryson Library Fund . . . . .                              | 83,870.14          | 13.81                                     | 83,883.95           |
| Bryson Library, Avery Collection . . . . .                 | 2,101.06           | .34                                       | 2,101.40            |
| Caroline Scholarship Fund . . . . .                        | 5,029.61           | .83                                       | 5,030.44            |
| Caroline Scholarship Fund (Deferred Income)                | 133.33             |   | 133.33              |
| Darche-Kimber Scholarship . . . . .                        | 1,611.66           | 84.36                                     | 1,696.02            |
| Dodge (Grace H.) Welfare Fund . . . . .                    | 61,160.71          | 10.08                                     | 61,170.79           |
| Special Scholarship Fund . . . . .                         |                    | 433.07                                    | 433.07              |
| Hartley (Helen) Fund . . . . .                             | 150,062.93         | 24.82                                     | 150,087.75          |
| Hoadley Scholarship Fund . . . . .                         | 3,001.38           | .49                                       | 3,001.87            |
| Hoe (Margaret) Memorial Scholarship Fund .                 | 5,007.76           | .82                                       | 5,008.58            |
| Kemp Estate Legacy Fund . . . . .                          | 34,399.82          | 5.66                                      | 34,405.48           |
| Macy (Caroline L.) Bequest . . . . .                       | 197,636.85         | 32.41                                     | 197,669.26          |
| Macy (Caroline L.) Bequest (Deferred Income)               | 266.67             |   | 266.67              |
| Morrey (Henry Doherty) Scholarship Fund .                  | 5,008.26           | .82                                       | 5,009.08            |
| Mortgage Reserve Fund . . . . .                            | 205,072.53         | 35,732.44                                 | 240,804.97          |
| Norworthy (Naomi) Memorial Fund . . . .                    | 2,750.81           | 213.98                                    | 2,964.79            |
| Playground Gate Fund . . . . .                             |                    | 290.80                                    | 290.80              |
| Runyan Scholarship Fund . . . . .                          | 1,129.38           | .19                                       | 1,129.57            |
| Sachs (Julius) Library Fund . . . . .                      | 10,015.52          | 1.65                                      | 10,017.17           |
| Teachers' Retirement Fund . . . . .                        | 80,385.43          | 10,067.13                                 | 90,452.56           |
| Tennyson (Alfred) Prize Fund . . . . .                     | 100.55             | .02                                       | 100.57              |
| Tileston Scholarship Fund . . . . .                        | 2,515.49           | .41                                       | 2,515.90            |
| Total for Special Purposes . . . . .                       | \$854,415.10       | \$46,914.65                               | \$901,329.75        |
| Total for General and Special Purposes . .                 | \$2,631,791.82     | \$72,194.61                               | \$2,703,986.43      |
| <b>II. INVESTMENTS (less Mortgages on Halls) . . . . .</b> |                    |   | \$2,688,617.20      |
| Uninvested Principal at June 30, 1920                      |                    |   | \$15,369.23         |

**FINANCIAL REPORT  
OF  
COLLEGE OF PHARMACY  
1919-1920**



# COLLEGE OF PHARMACY—BALANCE SHEET—JUNE 30, 1920

## COLLEGE OF PHARMACY

457

| ASSETS   |                     | LIABILITIES                                 |                     |
|--|---------------------|---|---------------------|
| Real Estate:   |                     | Bond and Mortgage . . . . .                 |                     |
| Land . . . . .                                       | \$112,500.00        | Depreciation . . . . .                      | \$20,000.00         |
| Buildings . . . . .                                  | 150,000.00          | Plant Fellowship . . . . .                  | 59,000.00           |
|  | <u>\$262,500.00</u> | Seabury Scholarship . . . . .               | 15,000.00           |
| Equipment:   |                     | Excess of Assets over Liabilities . . . . . | 305,163.15          |
| Library . . . . .                                    | 20,000.00           |   |                     |
| Herbarium . . . . .                                  | 10,000.00           |   |                     |
| Furniture . . . . .                                  | 10,000.00           |   |                     |
| Fixtures . . . . .                                   | 18,000.00           |   |                     |
| Apparatus and Chemicals:                             |                     |   |                     |
| Material Medica . . . . .                            | \$21,500.00         |   |                     |
| Analytical Chemistry . . . . .                       | 11,100.00           |   |                     |
| Pharmacy . . . . .                                   | 7,400.00            |   |                     |
| Dispensing Pharmacy . . . . .                        | 3,300.00            |   |                     |
| Chemistry . . . . .                                  | 4,000.00            |   |                     |
|  | <u>47,300.00</u>    |   |                     |
| Investments:   | 105,300.00          |   |                     |
| Interboro R.R. Bonds . . . . .                       | 3,000.00            |   |                     |
| New York Central R.R. Bonds . . . . .                | 5,000.00            |   |                     |
| Baltimore and Ohio R.R. Bonds . . . . .              | 5,000.00            |   |                     |
| Chicago, Milwaukee and St. Paul R.R. Bonds . . . . . | 5,000.00            |   |                     |
|  | <u>18,000.00</u>    |   |                     |
| Cash:  |                     |   |                     |
| Lincoln Trust Co. . . . .                            | 8,858.03            |   |                     |
| Garfield National Bank . . . . .                     | 144.00              |   |                     |
| West Side Savings Bank . . . . .                     | 3,949.25            |   |                     |
| American Savings Bank . . . . .                      | 2,616.39            |   |                     |
| Union Square Savings Bank . . . . .                  | 745.48              |   |                     |
| Petty Cash . . . . .                                 | 50.00               |   |                     |
|  | <u>16,363.15</u>    |   |                     |
|  | <u>\$402,163.15</u> |   | <u>\$402,163.15</u> |







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